

Application of Multiple Regressions in Development of an Employee Turnover Model

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Abstract

The life of the organizations has become more complex. Organizations had an enjoyable past but their future is not predictable. Believing in the past successes will not only lead to 'unsuccessful organizations', but also would be a case to learn 'how not to manage an organization'. Today every organization, to be effective is required to be more concerned with the questions of 'competitiveness' and 'continued existence'. A highly skilled workforce is the aorta of any organization. It is this work force that creates a sustainable competitive advantage to the organization. Innovation takes hold. New products and services are conceived. All these can only be achieved through a skilled work force. Employees are the vital and immediately available core-competency, which the organizations should capitalise and leverage them to achieve competitive advantage.

Keywords: Turnover model; Regressions; Mobility

Introduction

Today every organization, to be effective is required to be more concerned with the questions of 'competitiveness' and 'continued existence'. A highly skilled workforce is the aorta of any organization. It is this work force that creates a sustainable competitive advantage to the organization. Innovation takes hold. New products and services are conceived [1]. All these can only be achieved through a skilled work force. Employees are the vital and immediately available core-competency, which the organizations should capitalise and leverage them to achieve competitive advantage.

Competitive advantage is "organization's unique skills and resources working to implement strategies that competitors cannot implement as effectively" [2]. Organizations are required to build talent-based competitive advantage that competitors find hard to match or duplicate (Olsen). Jack Welch, Chairman of General Electrical (GE) once said that GE's competitive edge would come from individuals and their ideas. Any forward-looking business with a desire to stay competitive must avail itself of a highly competent and reliable work-force. In particular, the software sector has changed radically and is still going through changes as new approaches and paradigms compete for dominance. Management must develop and execute value-creating initiatives quickly, talent is becoming more critical to corporate performance, specific needs for talent are more unpredictable, and companies must develop talent more rapidly than ever [3]. The retention of key strategic employees, especially managers and professionals, will determine the success or failure of an organization.

One major factor that determines the competitiveness of the organization is the labour mobility. Labour mobility has huge implications for the organization's competitiveness. The two kinds of labour mobility are: Internal mobility and External mobility. Carnicer et al. [4] stated that internal mobility was the relocation of employees within the company, known as occupational mobility and it represented a change in the assignment of job responsibilities and/or functions, and external mobility (turnover) was leaving the company, either because the employee gives up his/her job or his/her contract is cancelled. Kacmar et al. [5] stated that, for those with external job mobility, actual turnover might be an option; for those with limited external job mobility, psychological turnover (intention to quit) might be the option. It is important to know the drivers of mobility in order to improve the organization's human resource management and development.

Factors Influencing Mobility

There are two groups of factors that explain the different types of mobility: job-related and non-related factors. Job-related factors include the compensation of the remunerated work – pay and social benefits, the type of contract – permanent or temporary, and other characteristics of the job like job category or job tenure. On the other hand, job non-related factors include the employee's perception on his/her job – like job satisfaction or work-family conflict, and demographic and personal characteristics such as gender, age or family situation.

Turnover and its Type

McEvoy and Cascio [6] defined employee turnover as movement of employee beyond the boundary of the organization. Turnover can be classified into two categories: voluntary and involuntary turnover. Voluntary turnover occurs when the employee terminates the employment relationship, involuntary turnover is when the employee wants to stay but the employer decides to terminate the relationship.

Turnover Consequences

Turnover is costly and devastating because it reduces organizational effectiveness and employee productivity [7]; causes a deterioration of rapport and trust leading to increased client dissatisfaction with agency services [8]; creates product delay in Research and Development, slows down market penetration [9]; causes poor reputation for the employers [10]. Turnover-related problems can be especially difficult in knowledge-based organizations where the productive capacity is concentrated in human capital that is, in the skills, abilities, and knowledge of employees [11]. Philliphs [12] states that turnover costs include direct expenses related to replacing an employee and indirect expenses related to loss of experience and lowered productivity. He also states that hidden expenses account for eighty percent or more of

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turnover costs and human efficiency is difficult to weigh, especially as productivity becomes more dependent on what is done with the mind rather than with the hands. Schlesinger and Heskett [13] describe a “cycle of failure” where high employee turnover results in low productivity, poor service, angry customers, even more discontented workers and thus, continuing high turnover. When an employee leaves, a vacancy chain is set in motion often involving the transfer of many other employees. This again disrupts the smooth working of the organization and quality defects emerge at the end of the chain with external customer effects.

Turnover among Software Employees

One of the main performance criteria is the ability to retain their manpower and thereby minimize employee turnover and this is very essential for the Indian software organizations. Indian software industry had a phenomenal growth in the last decade leading to increased job-hopping and quitting. Organizations continue to call help for this pressing issue. Agarwal [14] stated that software professionals were highly analytical and rational, looking forward to use existing knowledge, they acquired new knowledge on a continuous basis, worked on new platforms, new technologies and with new organizations. They also valued autonomy, professionalism, innovativeness and expected prompt feed-back and recognition for performance. These characteristics thus call for a software organization’s human resource department to be very effective in order to retain its employees and minimize the turnover rates.

Turnover intention

Turnover intention is used instead of actual turnover because in general the Theory of Planned Behaviour. Ajzen suggests that behavioural intention is a good predictor of actual behaviour, and in particular, previous studies have successfully demonstrated that behavioural intention to leave is consistently correlated with turnover [15-18]. In fact, Mobley et al. [19] have suggested that intentions offered a better explanation of turnover because they encompassed one’s perception and judgment. The propensity to quit, or more precisely the frequency of thoughts of quitting, has been identified as a predictor of voluntary labor turnover in a number of studies [20-22]. The most popular method of examining the concept is through individuals’ attitudes and feelings towards his or her employing organization. It is very hard to predict the quitting behaviour of individuals without having a deeper knowledge on the behavioural process of the individuals.

Multivariate studies (approaches) are necessary in assessing turnover. Such approaches are necessary in order to interpret the relative efficacy of numerous variables and constructs that are to be related to turnover, and move towards a complete understanding of the turnover process. The main objective should be to trace the causes and define a “causal model” to predict turnover, with respect to the organizational situations. In other words the attitude measurement process should lead to defining and predicting the “Antecedents-Behaviour-Consequences” of an eventual turnover and this study focuses on studying the quitting behaviour of the software employees to develop an ‘Employee Turnover Intention Model’.

Development of employee turnover intention model

Critical review of past researches helped in identification of hypotheses based on the various factors that were considered for the development of employee turnover intention model. Based on such literatures fourteen factors have been identified for the study’s purpose

on which the model has been derived. Ten factors were hypothesized to influence turnover intentions directly. The discussion on each factor’s antecedent and decedents are discussed in relation to the development of hypotheses that formed the basis for turnover intention model.

Sense of personal adequacy (PA)

Self-esteem: Self-esteem refers to the evaluation that individuals make and customarily maintain with regard to themselves and sense of worth or value of self [23]. Low self-esteem is related to psychological problems, unemployment and maladaptive behaviour [24-26]. On the other hand high self-esteem individuals have strong, stable and positive beliefs on their qualities and self-esteem is correlated with ability, effort and satisfaction [27-30]. Demands that induce stress can diminish self-esteem [31]. Mone [32] found that “role self-esteem” increased the propensity of turnover intention in an individual.

Self-efficacy: It is employees’ belief that they have the ability to cope and respond to challenging situations. Rogers [33] reported that when an individual of high self-efficacy evaluated new techniques, compatibility with knowledge, skills, ability, he/she believed that he/she was capable of mastering the new technology. This implies that individuals with high self-efficacy is not prone to the new technology introduced in the work place, changes in culture and so on, whereby quitting due to “fear of new technology” is totally dismissed. Moore [34] reported that high self-efficacy of an individual was associated with reduced intention to quit.

Software professionals are bombarded with various external cues, which likely influence the work place behaviour but it is not so in the case of persons with high sense of personal adequacy.

H1: The employees’ sense of personal adequacy will be negatively correlated with job stress.

Researches have shown the influence of personal adequacy on stress and stressors; meta-cognitions of IT workers satisfaction [35-38]. “Self-esteem” and “self-efficacy” influence the turnover intentions of the employees. Employees with high level personal adequacy will be confident enough to pursue job opportunities in other organization.

H2: The software professionals’ sense of personal adequacy will be positively correlated with the individual’s turnover intention.

Perceived learning opportunity (PLO): Schneider [39] proposed that when employee values are congruent with those of the organization, the organization would fulfill the needs or desires of the individual and greater satisfaction and commitment could occur. Mobley et al. [19] stated that the employees evaluated the organizations future expected value with his/her work, which influenced the employees’ progression through successive stages of withdrawal. Wanous et al. [40] stated that the training provided to the employees better predicted the job survival of the individual. Smith stated that when an employee’s expectation regarding fulfillment of needs were met by the organization, an exchange between needs and rewards had occurred and commitment to the organization was therefore expected to increase. Learning-oriented individuals see intelligence as malleable and continually seek challenge, which they believe fosters learning. They persistently examine the results of their behaviour in order to determine the best strategy for their next attempt at the same task or situation [41,42]. In the knowledge economy, companies are under severe pressure to cope with increasing rates of environmental change and turbulence. McHugh [43] stated that unless majority of the staff perceived that the organization developed supportive organizational mechanism to

change, such as top management commitment, allocation of resources, rewards, training, participation in planning, change would be stressful. Perceived failure of organization to match the “professional needs” will lead to stressful misfit within the employees. When the employees need is matched, it would reduce stress and ultimately increase job satisfaction and commitment.

H3: The employees’ perceived learning opportunity is negatively correlated with job stress.

Career anxiety (CA): Organizations that fail to create an opportunity for acquiring technical updates on the current technology may cause the employees to start thinking about the viability of their staying in the organization. Studies have shown that perceptions of low level of job security could result in reduced employee commitment [44,45]. They assert that employees who are not assured of their place in the organizational structure tend to look for security outside the organization. Anuradha Chawla and Kelloway [46] stated that job insecurity had become virtually synonymous with fear awakened by change. Loss of organizational loyalty has been proposed as result of job insecurity [47]. Employees who feel insecure about their jobs are not as likely to view their own future as bound with future of the company [48]. Ashford et al. [44] found that job insecurity was related to intention to quit. The employees would feel that quitting might help their career [49]. Employees with high growth needs may be dejected if they feel that the organization fails to update technology and keep pace with the current technological developments. Software professionals are knowledge workers. They might feel unsecured if they are not trained either on new technology or on new platforms. In both the cases the employees may view these situations as a “threat” to their career.

H4: The employees’ perceived learning opportunity is negatively correlated with their level of career anxiety.

On the other hand, introduction of new technology, expecting the employees to work on a newer platform has the potential to cause stress, because the employee should develop/enhance his/her existing knowledge, skills and abilities in a short time span, which can induce stress and create career anxiety.

H5: The employees’ career anxiety is positively correlated with their level of job stress.

Perceived alternate employment opportunities (PAEO)

If the employees perceive that the job alternatives are good then he/she is likely to develop an intention to quit and more the opportunities are available, the more likely is the employee to evaluate an alternative opportunity as superior [50,51]. Michaels and Spector [52] reported that high unemployment should weaken the quit intentions- turnover pathways because many prospective leavers are reluctant to enact withdrawal intentions unless they can serve other positions elsewhere. Steel and Griffeth [53] reported a correlation of 0.13 between the perceived employment opportunity and turnover. Hulin et al. [54] contradicted that most workers do not quit on the basis of probabilities estimated from the alternatives available; they quit on the basis of certainties represented by jobs already offered. Employees might refrain from shifting jobs when appropriate opportunities are not available and thereby increase time spent at their jobs before moving on. Milliman et al. [55] reported that organization-based self-esteem concerns the degree to which individuals believe that the organization satisfy their needs and have a sense of personal adequacy in their organization. Employees with negative perception on the organization’s ability to satisfy their needs may start thinking of alternate opportunities.

H6: The employees’ sense of personal adequacy is positively correlated with their perceived alternate employment opportunities.

The perceived or actual alternatives constitute the ease of movement out of the organization. Matilla stated that 50 to 60 per cent of leavers arranged alternative positions before quitting. Mano-Negrin and Tzatrir [56] reported that negative perception of opportunities in the internal labor market matched by positive perceptions of external market opportunities directly affected the turnover decision-making process.

H7: The employees’ perceived alternate employment opportunities are positively correlated with their turnover intention.

Perceived intrinsic job characteristics (PIJC)

Curry et al. [57] reported that work routinization strongly influenced job satisfaction. Bretz and Judge [58] found that organizational policies affected individual’s assessment of the organization based on their fit with individual characteristics such as self-esteem, locus of control, need for achievement and autonomy. Stevens et al. [59] reported that more centralization would mean that power resided in a few hands and lessened individual’s autonomy and prerogatives in decision-making. This results in low level of commitment. Mowday and Spencer [60] reported that high levels of autonomy and responsibility on the job were associated with low turnover. Software professionals expect autonomy in their work for producing desired output. If the employees perceive less autonomy or no autonomy, then their commitment towards the work will be influenced. When one influences the choice of work to be performed one is likely to select tasks one feels competent to address [38]. Morris and Steers [61] suggest that perceived decentralization is likely to be associated with participative decision-making and increased commitment levels through greater employee involvement. Researchers suggest a positive relationship between job autonomy and employee affective responses, such as job satisfaction and organizational commitment [62-64]. Research had stated that autonomy may contribute to a sense of commitment and loyalty to the organization through a process of reciprocation. Individuals tend to appreciate organizations that provide opportunities for decision latitude, challenge, and responsibility. They are likely to reciprocate by being more committed and loyal to the organization, as with job autonomy, experiencing a workplace that fosters personal employee development may contribute to a sense of commitment to the organization through a process of reciprocation [65].

H8: The employees’ perceived intrinsic job characteristics are positively correlated with their level of commitment.

Job demands (JD)

High task (job) demands exist when individuals perceive that there is a great amount of work to be done and they must work hard and fast under time pressure [66]. Williams and Alliger [67] in their study found that task demand was negatively related to fatigue. Stevens et al. [59] found that work overload strongly influenced commitment. Role overload can be classified into qualitative and quantitative overloads. When individuals feel that they lack the necessary skills to complete an assigned task, they are considered to be experiencing qualitative overload. A quantitative “overload” is when an individual finds it difficult to complete an assigned task within a stipulated time [68-70]. High task demands exist when individuals perceive that there is a great amount of work to be done and they must work hard and fast under time pressure. The outcomes of demanding

work include anxiety, over ability to maintain the pace of work, mental strain and fatigue [71].

H9: The employees' sense of personal adequacy is negatively correlated with their sense of job demands.

The software employees' work continuously based on targets, and quality is the noun that ought to be adhered strictly. The employees are in a great hurry to complete the task in time on or before the stipulated delivery date. Towards the end of a task or project the number of "worked hours" increases dramatically, which induces changes both physiologically and psychologically in the employees.

H10: The employees' perception on their job demand is positively correlated with their perceived level of stress.

Work stress (WS)

Job stress refers to a situation wherein job-related factors interact with the worker to change his/her physiological and/or psychological conditions such that the person is forced to deviate from the normal functioning [72]. One factor that has been associated with both work attitudes and turnover intention is job stress. Kahn and Byosiere [73] states that "many variables become stressors not only when present in excess but also when lower than optimum level". Too much and too little work induces stress. McGrath [74] states that stress is an out-balance situation where demands do not match the individuals capabilities. French and Caplan [75] indicate that career progress stress adversely impacts job satisfaction. The potential career progress stressors also include lack of job security and technology obsolescence. Career progress stress is based on lack of opportunity to advance. Stress related problems among workers contribute to dysfunctional organizational consequences such as decreased commitment, increased absenteeism and high turnover [76]. Fisher and Gitelson [77] state that role stress is negatively related to job satisfaction.

H11: The employees' sense of perceived job stress is negatively correlated with their level of job satisfaction.

H12: The employees' level of perceived job stress is positively correlated with their level of turnover intention.

Burnout (BO)

Laschinger et al. [78] indicate that burnout is a phenomenon commonly associated with levels of autonomy namely lack of control, over-work practices and lack of organizational trust. Mattenson and Ivancevich [79] report that anything that causes job stress may contribute to burnout. Bhanugopan and Fish [80] state that when people describe themselves experiencing 'job burnout' they are most likely to refer to an exhaustion which is the central quality of job burnout. Houkes et al. [81] reported that emotional exhaustion was primarily predicted by high workload and lack of social support. Any individual can experience "job burnout" so long as he/she has run for stress in his/her work life. Many of today's workers are finding their jobs more stressful because they are working too many hours. Studies report that "where employees are empowered, where they have more control on how they perform their work, the risk of stress and burnout is less [82,83].

H13: The employees' sense of perceived job stress is positively correlated to with their level of job burnout.

An organizational culture that becomes too stressful, non-challenging with its employees' needs and desires may lead to personal

burnout and higher turnover rates. Jackson and Schuler [84] report that, although burnout and other affective reactions are strongly linked to a desire to leave, intentions to leave may not become translated into actions since the process is very complex and includes many intermediate linkages such as low probability of finding another job on the same pay. Burnout can include withdrawal and decreasing involvement in the job, seriously affecting job satisfaction, turnover, absenteeism, and productivity [85,87].

H14: The employees' level of burnout is negatively correlated with their sense of job satisfaction.

Fit perceptions (FP)

PJ fit results in high job proficiency; work is likely to be accomplished quickly and with higher ability quality than in circumstances when the job proficiency is low. This in turn, improves organizational effectiveness. PG fit is conducted at the group level analysis. PG fit is likely to impact organizational effectiveness by promoting group cooperation and synergy. PO fit is conducted at the organizational level. It concerns the match between the worker and the organization culture. Kristof [88] reported that PO fit improves work attitudes and retention rates.

Silver thorne [24] reported that a good fit is a powerful variable within the organization and it has a positive impact on job satisfaction and organizational commitment and negative impact on turnover rates. The better the fit the higher the organizational commitment and lower the turnover rate. Studies have shown that positive perceptions of fit can have long term consequences for one's career [89,90].

Argyris argues that a great deal of organizational outcomes depend on the degree of congruence between individual characteristics and those of the organization. Study conducted by Ahlburg et al. [91] reported that the person-job fit, person-organization fit, and person-group fits were related to job satisfaction (satisfaction with the work-itself, supervisor, and coworkers), organizational commitment, and withdrawal from the job. Studies have shown that positive perceptions of fit can have long term consequences for one's career. Software employees' work in teams and cohesion is an important factor that should exist as the work is hugely based on knowledge sharing. They tend to be more innovative and receptive towards gaining knowledge and they like to have a challenging task. In general, the organization should match the expectations of the individuals and if the organization fails to do so then it will be detrimental to the employees' behaviour.

H15: The employees' perceived learning opportunity is positively correlated with their fit perceptions.

H16: The employees' perceived fit perceptions are positively correlated with their turnover intention.

Pre-employment expectations (PEE)

Role conflict deals with difference between an individual's expectation of the job and the reality of the job [92]. The software professionals' behaviour is based on the "met-expectations" of their jobs in terms of tasks, rewards, career growth and other advancements.

H17: Employees' pre-employment expectation is positively correlated with their level of satisfaction and negatively related with their level of turnover intention.

Perceived inequity (PI)

Cascio [93] states that employees who cannot achieve an acceptable "adjustment" of the input: outcome ratios, either in reality

or by altering perception of the ratio, typically resolve the situation by withdrawing from the organization. In the performance appraisal context, distributive justice refers to the fairness of the evaluation received, whereas procedural justice refers to the fairness of the process used in determining the evaluation and in this study the distributive justice is considered to evaluate the employees perceived in equity. The Adam's equity theory was applied with employees' perceived equity on payments and rewards when compared to employees of equal status within their organization (internal perceived equity) and also outside the organization that is with the employees of other organizations (external perceived equity).

H18: The employees' internal perceived inequity is negatively related with their commitment and negatively related with their turnover intention.

H19: The employees' external perceived inequity is negatively related with their commitment and negatively related with their turnover intention.

Organizational commitment (Comm)

Consequences of commitment vary according to individuals' level of attachment [94]. Organizational commitment remains an important and valuable attitude for an organization [95]. Attitudinal commitment is measured in this study. Various studies have found a strong support of negative relationships between organizational commitment and turnover [22,96,97]. Number of models exist linking commitment to turnover [19,98] and intent to turnover [99,100]. Employees who left the organization within a short span of time showed a definite decline in commitment prior to termination [42]. It is important for an organization to keep their employees committed. It is believed that a proper alignment of resources can act as a motivational tool for the organization, enhancing the employees' sense of commitment and loyalty. Individuals allowed to build on their personal adequacy should feel better towards organization and can share common goals and values, which is similar to Scholls' [101] general model of stability of behaviour. It states that behaviour is based on expectancy and commitment proposition. Expectancy proposition is the propensity to remain in a particular organization which increases, as the individual's perceived probability of continued equitable rewards associated with continued membership increases. Commitment proposition is the propensity to remain in a particular organization which increases as individuals' investment to that organization increases, alternative opportunities become blocked through the acquisition of skills specific to that organization and the individuals' social identity become tied to that organization. If individuals fail to perceive positive probabilities they may start to blame and seriously start thinking about quitting.

H20: The employees' sense of personal adequacy is positively correlated with their level of organizational commitment.

H21: The employees' level of commitment is negatively correlated with their turnover intention.

Bateman and Strasser [102] found that organizational commitment was an antecedent to job satisfaction. Marsh and Mannari [103] found satisfaction as the antecedent of commitment. This can be accomplished by providing opportunities for the employees to succeed and by satisfying their growth needs. Brown and Peterson [104] state that employees who possess high levels of job satisfaction are ought to have stronger commitment to organization. Igarria and Guimaraes [105] in their study confirmed the important role of organizational commitment in the turnover process for IT personnel. They stated

also that Information Technology (IT) employees who were highly committed to their organization were less likely to leave than those who are relatively uncommitted. If the organization makes the employees feel good about them, the level of organizational commitment will increase.

H22: The employees' sense of job satisfaction will be positively correlated to their level of organizational commitment.

Loyalty (Loy)

There is a difference between loyalty and organizational commitment. Loyalty is a strong desire to maintain a relationship with the organization but commitment is a strong belief and acceptance of organizational goals and values. Studies have shown loyalty as an antecedent to turnover intentions and influenced commitment [106,107]. Results of overall rewards of work study conducted by Sibson [108] support the link between low engagement and high turnover rates and high satisfaction among the highly engaged workers with lesser turnover rates.

It is widely recognized that knowledge workers exhibit greater loyalty to their profession and colleagues than to their employing organizations [109]. Hence it is important for the organizations to increase the level of loyalty through commitment. Commitment towards the organization results from the maximization of human resources and increasing employee loyalty, and this in turn results in less absenteeism from the work place and lower labor turnover.

H23: The employees' sense of organizational commitment is positively correlated with their level of organizational loyalty.

H24: The employees' sense of organizational loyalty is negatively correlated with their turnover intention.

Job satisfaction (Sat)

Job satisfaction is generally recognized as a multifaceted construct that includes employee feelings about a variety of both intrinsic and extrinsic job elements. It encompasses specific aspects of satisfaction related to pay, benefits, problem, work and relationship with co-workers [110]. Researches stated the importance of work characteristics (routine, autonomy and feedback), characteristics of the work environment (leadership, stress, advancement, opportunities and participation) in relation to job satisfaction [111,112]. Studies found that employees who left the organization had less satisfaction on five or seven job dimensions (Satisfaction with the management, pay, work, promotion and supervision) and propensity to leave [113,114].

H25: The employees' sense of personal adequacy is positively correlated with their level of job satisfaction.

Those who have the intention of quitting should demonstrate less satisfaction with their employers, believing that the organization is no longer able to provide that which they expect from their jobs [115]. Self consistency theory states that employees will develop attitudes about their job satisfaction that are consistent with their self-esteem. If incongruence exists then dissatisfaction occurs.

Employees who experience job satisfaction are more likely to stay on the job [116,117] and likely to be productive. Several studies show negative relationship between job satisfaction and turnover [118-121]. Numerous researches show the negative relationship between job satisfaction and turnover intention [122-125].

H26: The employees' sense of job satisfaction is positively correlated with their level of organizational commitment.

Turnover intention (TI)

The propensity to quit or more precisely the frequency of thoughts of quitting, has been identified as a predictor of voluntary labor turnover in a number of studies [16,52,126-128]. Mobley et al. [19] states that actual turnover is expected to increase as in the intention to quit increases.

H27: The employees' sense of job satisfaction is negatively correlated with their turnover intention.

Demography

Personal variables such as age, gender, job tenure, educational level, marital status have been researched and shown to be relevant to commitment, satisfaction and turnover intentions [129-134]. Age is perhaps the most consistent individual characteristics variable with its reported negative and significant relationship to turnover and education positively related to turnover [35]. Given the composition of the workforce, the relationships will be determined. Based on the proposed hypotheses a turnover intention model was developed. Figure 1 shows the hypothesized model for validation.

Method

Participants and procedures

Total of four hundred and nine employees from three software organizations participated in the study; 282 (approx. 69 percent) were males and 127 (31 percent) were females. The majority of the participants (70 percent) were between 22 and 27 years of age and 74 per cent of the participants had 10 months to 6 years of work experience. The overall mean age and the mean tenure of the female respondents were 25.99 and 3.27 with a standard deviation of 2.56 and 1.82, respectively. The mean age and the mean tenure of the male respondents were 26.41 and 3.64 with standard deviations of 2.74 and 2.32 respectively. A total of 188 (46 percent) were married and 221 (54 percent) were single. Regarding the participants educational background, 220 (54 percent) were undergraduates (both from professional and non-professional courses); 155 (37percent) were post graduates and the remaining 34 (9 percent) had other degrees.

Instrument design

Participants completed a self-reporting questionnaire, which incorporated sixteen factors viz, Sense of Personal Adequacy (scale modified by Wendell) [135]; Perceived Learning Opportunity (statements from Useem); Career Anxiety; Perceived Alternate Employment Opportunity (scale items adapted from Michaels and Spector; Arnold and Feldman, and Mowday et al. [52,136]. Perceived Intrinsic Job Characteristics (scale developed by [57]; Job Demand (Scale developed by Van Yperen and Janssen); Work Stress (scale developed by Behson); Burnout (Measures developed by Pines and Aronson [70]); Fit Perceptions-Person-job; Person-organization; Person-group [137-139]. Pre-Employment Expectations (scale developed by the researchers); Perceived Inequity-Internal and External (scale developed by the researchers); Organizational Commitment (OCQ by Porter et al. [126]); Organizational Loyalty (statements from Mac and Sockel); Job Satisfaction (statements from Mac and Sockel); Opinion on previous employment scale developed by the researchers); and Turnover Intention [140], that were either directly or indirectly

related to the study on turnover intention. In addition, personal and demographic data related to age, gender, marital status, educational background, work experience and dependency were also collected.

A pilot study was conducted to measure the reliability of the questionnaire. Items were eliminated from the instrument if they failed to singularly load. A few scale items were removed after the pilot study of the questionnaire. Post pilot study the questionnaire consisted of 120 statements in total. The questionnaire was constructed and sequenced logically for the convenience of the respondents. To encourage the respondents to provide their response without any fear and to create trust a covering letter was attached indicating the purpose of the study, and the promise of confidentiality. Respondents were briefed on the general purpose of the study, and asked to complete the questionnaire without any fear.

Results

Inter correlation report among the various constructs

A two-tail Pearson's correlation was applied between all the constructs. Table 1 is the report of the zero order correlations between the various constructs. A positive value indicates that increase in one variable increases the other variable too. A negative value indicates that increase in one variable decreases the other variable. The supported hypotheses of the proposed model (model for validation) are in bold print and those hypotheses that were not supported are italicized. The relationships that were unanalyzed, which can be used for further analyses are in bold print and underlined.

Model validation

Simultaneous regression was used to examine the unique effects of each independent variable on a dependent variable and at the same time to validate the hypothesized model (Figure 1). This method identifies the amount of unique variable contributed by each independent variable after the shared variance of the independent variable is removed.

The scale items of each construct were averaged together to form a single non-weighted average value. These averages were used in the simultaneous regression technique to study the support of relationship for the hypothesized model. The testing of the hypothesized model was carried in nine stages. The model was tested through the iterative approach working from 'right side' to 'left side' of the hypothesized model. The first stage used turnover intention (TI) as dependent variable with personal adequacy (PA), perceived alternate employment opportunities (PAEO), work stress (WS), fit perceptions (FP), pre-employment expectations (PEE), perceived inequity-internal (PIE-I), perceived inequity-external (PIE-E), loyalty (Loy), commitment (Comm) and satisfaction (Sat) as independent variables. The construct perceived learning opportunities, pre-employment expectations, perceived intrinsic job characteristics, perceived inequity-internal and perceived inequity-external were the exogenous variables. Table 2 details the treatment of variables at each stage.

Model significance testing

If the associated 'p' value for overall F at each stage is less than 0.05 levels then the result suggests that the overall regression model at that stage is statistically significant. An independent variable was considered to significantly influence the dependent variable if that particular independent variable's p value was found to be less than 0.05 levels. The regression was run twice. A second run regression was performed for those independent variables, which were found to be significant during

Constructs	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.PA	1															
2.PLO	0.193**	1														
3.CA	-0.392**	-0.344**	1													
4.PAEO	0.465**	0.072	-0.193**	1												
5.PIJC	0.573**	0.230**	-0.295**	0.252	1											
6.JD	-0.047	0.01	0.021	-0.007	0.089	1										
7.WS	-0.129**	-0.112*	0.054	-0.044	0.041	0.760**	1									
8.BO	-0.191**	-0.051	0.058	-0.072	0.008	0.354**	0.476**	1								
9.FP	0.146**	0.079	-0.039	0.074	-0.112*	-0.273**	-0.364**	-0.258**	1							
10.PEE	0.150**	0.044	-0.007	0.104*	-0.018	-0.152**	-0.186**	-0.130**	0.470**	1						
11.PIE-I	-0.198**	-0.078	0.099*	-0.095	-0.0178**	0.082	0.159**	0.147**	-0.052	0	1					
12.PIE-E	0.004	-0.023	0.022	-0.069	-0.037	-0.079	-0.027	-0.042	0.207**	0.215**	0.377**	1				
13.Loy	0.196**	-0.005	-0.056	0.083	-0.005	-0.304**	-0.357**	-0.285**	0.429**	0.332**	0.017	0.304**	1			
14.Comm	0.226**	0.055	-0.083	0.104*	0.086	-0.267**	-0.275**	-0.193**	0.257**	0.214**	-0.292**	0.005	0.490**	1		
15.Sat	0.220**	0.126*	-0.120*	0.079	0.092	-0.422**	-0.560**	-0.432**	0.333**	0.244**	-0.203**	0.148**	0.458**	0.440**	1	
16.TI	-0.066	-0.002	-0.009	-0.003	0.111*	0.471**	0.544**	0.344**	-0.438**	-0.267**	0.118*	-0.147**	-0.600**	-0.492**	-0.583**	1
N=409																

Note: PA=Personal adequacy; PLO=Perceived learning opportunity; CA=Career anxiety; PAEO=Perceived alternate employment opportunity; PIJC=Perceived intrinsic job characteristics; JD=Job demands; WS=Work stress; BO=Burn out; FP=Fit perceptions; PEE=Pre-employment expectation; PIE-I =Perceived inequity-internal; PIE-E=Perceived inequity-external; Loy=Loyalty; Comm=Commitment; Sat=Satisfaction; TI=Turn over intention.*significant at 0.05 level; **significant at 0.01 level.

Table 1: Inter-Correlation report.

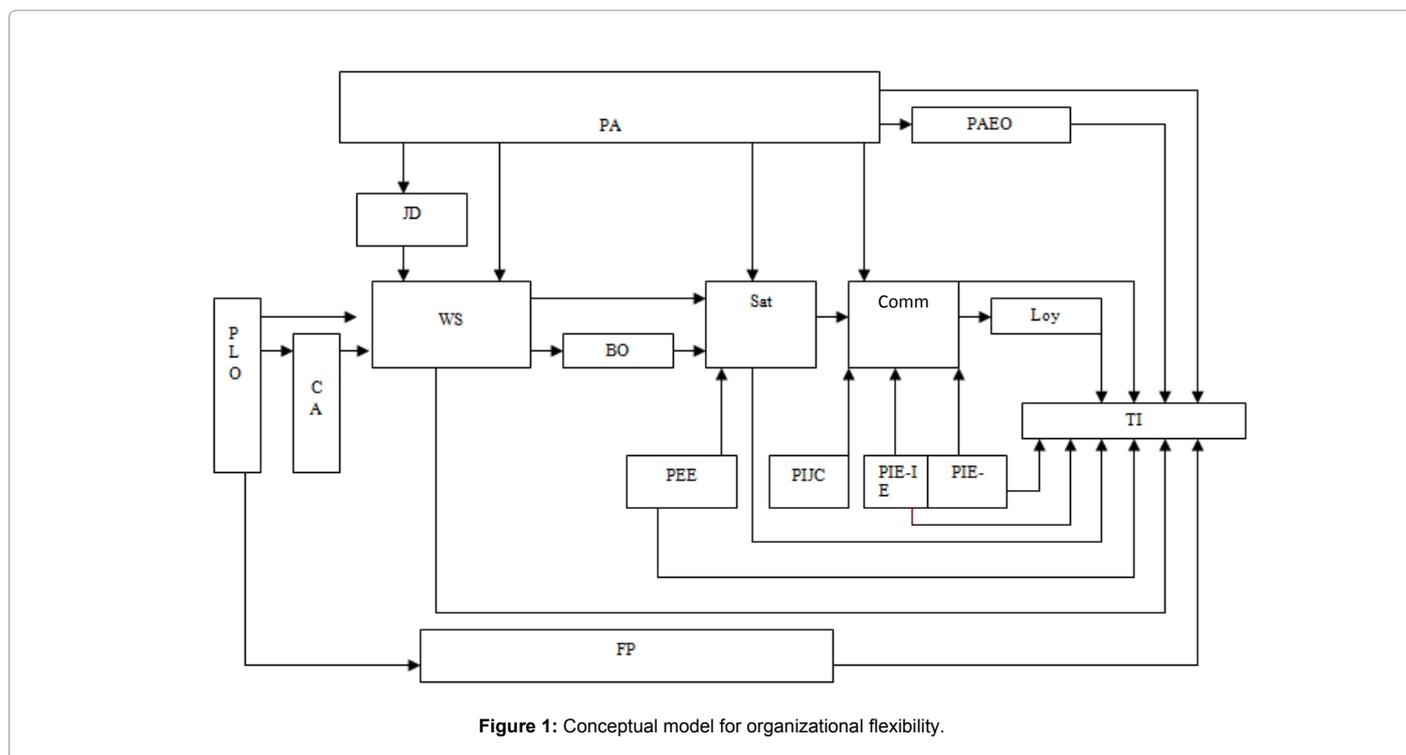


Figure 1: Conceptual model for organizational flexibility.

the first run of simultaneous regression. Stage-wise the regression results are provided. Table 3 is the summarized results of the first run regression.

The Table 3 shows that during the first run regression; personal adequacy, work stress, fit perception, loyalty, commitment and satisfaction were found to be significantly influencing the turnover intention in the first stage and the model (Adjusted R2=0.561) was also found to be significant. In stage two, the effect of commitment's (independent variable) influence on loyalty was examined; it was found

that the model was significant, adjusted R2=0.24, F(1,407)=128.52, p<0.001. Commitment influenced loyalty. During stage three the simultaneous effects of personal adequacy, perceived intrinsic job characteristics, perceived inequity-internal, perceived inequity-external and satisfaction (independent variables) on commitment (dependent variable) were examined. The result revealed that the model was significant, adjusted R2=0.241, F (5,403)=28.87,p<0.001 and the independent variables, personal adequacy, perceived inequity-internal, and satisfaction significantly influenced commitment. The simultaneous

Stage	Dependent Variable	Independent Variable
Two	Loyalty	Commitment
Three	Commitment	Personal adequacy Perceived intrinsic job characteristics Perceived inequity-internal Perceived inequity-external Satisfaction
Four	Satisfaction	Personal adequacy Work stress Burn out Pre-employment expectations
Five	Burn out	Work stress
Six	Work stress	Personal adequacy Perceived learning opportunity Career anxiety Job demands
Seven	Fit perception	Perceived learning opportunity
Eight	Perceived alternate employment opportunities	Personal adequacy
Nine	Career anxiety	Perceived learning opportunity

Table 2: Treatment of variables at each stage.

effects of independent variables (personal adequacy, work stress, burnout, and pre-employment expectations) on the dependent variable (satisfaction) were examined in during the fourth stage regression run. The result revealed that personal adequacy, work stress, burnout, and pre-employment expectations significantly influenced satisfaction and the model was also found to be significant with adjusted R²=0.372 and F (4,404) =61.44, p<0.001.

In stage five the effect of work stress (independent variable) was examined on job burnout (dependent variable) and was found to be significantly influenced by work stress.

Stage six analyzed the effects of independent variables (personal adequacy, perceived learning opportunity, career anxiety and job demands) on the dependent variable (Work Stress). The result showed that the model was found to be significant, adjusted R²=0.594, F (4,404) =150.338, p<0.001. Personal adequacy, perceived learning opportunity and job demands significantly influenced work stress. Stage seven, eight and nine had only one independent variable to be regressed on the dependent variable. Stage seven had perceived learning opportunity as independent variable and fit perception as dependent variable. Stage eight had personal adequacy as independent variable and perceived alternate employment opportunities as dependent variable. Stage nine had perceived learning opportunity as independent variable and career anxiety as dependent variable. The model resulted in the stage seven was insignificant, adjusted R²=0.003, F (1,407)=2.068, p>0.05. The model that resulted from stage eight adjusted R²=0.214, F (1,407)=112.27, p<0.01 and the model from stage nine, adjusted R²=0.118, F (1,407)=54.52, p<0.001 were found to be significant. Perceived alternate employment opportunity was significantly influenced by personal adequacy. Career anxiety was significantly influenced by the perceived learning opportunity.

Regression analysis-second run

The independent variables that were found significant during the simultaneous regression were considered for second run in the multiple

regressions. The second run of simultaneous regression was carried out only with those independent variables that were found to be significant during the first run. The second run regression was carried for stages one, three, four and six. The other stages were not considered for a second run-regression because those stages had only one independent variable with them. Table 4 shows the second-run regression results.

From the Figure 2, it can be inferred that perceived adequacy failed to influence the job demands. Though career anxiety was determined by perceived learning opportunities, the career anxiety failed to explain the work stress. Similarly high sense of personal adequacy leads to high perception in the alternatives available, but PAEO failed to explain turnover intentions. Hence, career anxiety and PAEO were removed from the original model. PIJC failed to explain commitment and PIE-E failed to explain commitment and turnover intentions. PIE-I did not influence TI but it influenced commitment. PEE explained satisfaction but did not explain TI. PLO failed to explain fit perceptions. Thus the exogenous variables of the trimmed model were JD, PA, PLO, FP, PEE and PIE-I. Figure 3 shows the model with supported relationships with its respective beta weights.

There were six constructs in the model (Figure 3) that can be classified as exogenous factors. The affecting variables of the exogenous factors are unknown. Hence, relationships were established between the exogenous and the other endogenous variables. Pearson correlation Table 1 showed significant relationship between fit perceptions and job demands; personal adequacy and pre-employment expectations; between perceived learning opportunities, perceived intrinsic job characteristics and fit perceptions. To test these relationships separate stages of regression were performed to determine the significant influence because correlation does not explain causation. Those variables for which no relationships could be found were omitted from the study. The Figure 4 shows the newly added paths in the validated model.

New paths are presented in dotted line (Figure 4). These new paths were included to avoid any kind of inclusion that may be an important variable for the study. Career anxiety when simultaneously regressed with the other independent variables of satisfaction, it was found that career anxiety neither increased nor decreased the adjusted R² value. When career anxiety was regressed alone with the dependent variable, satisfaction, it accounted for a minimal variance. The newly added paths relationship was weak in explaining the variance. Hence, these new paths were not considered for further analysis of the model.

Alternate model

A good model is one, which increases the predictive path. A good model development stops where its predictive path is at the highest. All the new paths defined either had a weak explained variance or no causation. The new paths in no way either increased or decreased the R² values. Hence, the new paths were omitted from the model. In the correlation Table 1, the relationship between satisfaction and loyalty was found to be significant. To increase the explanatory power of the model it was decided to swap the positions of loyalty and commitment in the model without affecting the impact of its endogenous variables and without much affecting the hypotheses of the model. The reason for swapping loyalty and commitment in the model was to find if any increase in the R-square could be obtained, whereby the model development can be stopped without any further alterations.

The change that took place in the relationship between loyalty, commitment and turnover intention was that before swapping, loyalty

Stage	D.V	I.V	Un standardised coefficients		Standardised coefficients	t-value	Anova (F)	Adj. R ²
			Beta	Std.error	Beta			
	TI	Constant	4.716	0.296		15.938	53.114***	0.561
		PA	0.138	0.44	0.121	3.141**		
		PAEO	0.026	0.046	0.021	0.577		
		WS	0.178	0.032	0.231	5.611***		
		FP	-0.143	0.0046	-0.128	-3.139**		
		PEE	0.005	0.029	0.007	0.190		
		PI-I	0.004	0.029	0.005	0.137		
		PI-E	0.006	0.029	0.009	0.237		
		LOY	-0.271	0.039	-0.303	-6.871***		
		COMM	-0.19	0.044	-0.178	-4.303***		
		SAT	-0.214	0.042	-0.225	-5.064***		
Two	Loy	Constant	1.614	0.813		8.802	128.52***	0.238
		COMM	0.586	0.052	0.490	11.337***		
Three	Comm	Constant	2.494	0.249		10.02	28.87***	0.241
		PA	0.149	0.058	0.140	2.593*		
		PIJC	-0.078	0.064	-0.065	-1.235		
		PI-I	-0.150	0.035	-0.211	-4.282***		
		PI-E	0.018	0.033	0.027	0.561		
		SAT	0.329	0.041	0.368	7.971***		
Four	Sat	Constant	4.084	0.237		17.261	61.44***	0.372
		PA	0.131	0.048	0.110	2.723**		
		WS	-0.350	0.036	-0.433	-9.608***		
		BO	-0.191	0.045	-0.189	-4.196***		
		PEE	0.099	0.033	0.122	3.040**		
Five	BO	Constant	1.726	0.097		17.723	118.91***	0.224
		WS	0.382	0.035	0.476	10.905***		
Six	WS	Constant	0.698	0.330		2.111	150.33***	0.594
		PA	-0.124	0.051	-0.84	-2.445*		
		PLO	-0.151	0.044	-0.115	-3.41**		
		CA	0.05	0.053	-0.034	-0.942		
		JD	0.97	0.040	0.758	24***		
Seven	FP	Constant	3.41	0.127		1.438	2.068(N.S)	0.003
		PLO	0.064	0.045	0.07	1.438		
Eight	PAEO	Constant	1.975	0.127		15.526	112.27***	0.216
		PA	0.0425	0.040	0.465	10.596***		
Nine	CA	Constant	3.909	0.041		33.585	54.52***	0.116
		PLO	-0.304	0.041	-0.344	-7.384***		

***p<0.001, **p<0.01, *p<0.05. D.V-Dependent Variable; I.V-Independent Variables

Table 3: Summarized results of first run regression with significant predictors.

was directly related to the turnover intention and commitment was related to turnover intention in both ways that is both direct and indirect. The indirect effect was through loyalty. In the proposed alternate model (Figure 5) commitment was directly related to turnover intention and it had no indirect relationship. Instead, loyalty had indirect effect on turnover intention through commitment and direct effect on turnover intention. Loyalty was influenced by satisfaction. The effect of loyalty on turnover intention and the effect of commitment on turnover intention did not change irrespective of the positions they held, because those two variables were directly related to turnover intention. The major change

was satisfaction influencing loyalty instead of commitment influencing loyalty and this particular relationship, 'satisfaction to loyalty' is the only addition to new path construction (Table 5).

The influence of independent variables which had loyalty as one of the commitments' predictors was found to determine the changes in the explained variance, that is, the changes in the R2. The Table 6 shows the simultaneous influence of personal adequacy, perceived inequity-Internal, satisfaction and the newly added independent variable 'loyalty'.

From the Table 6 it can be inferred that the model was found

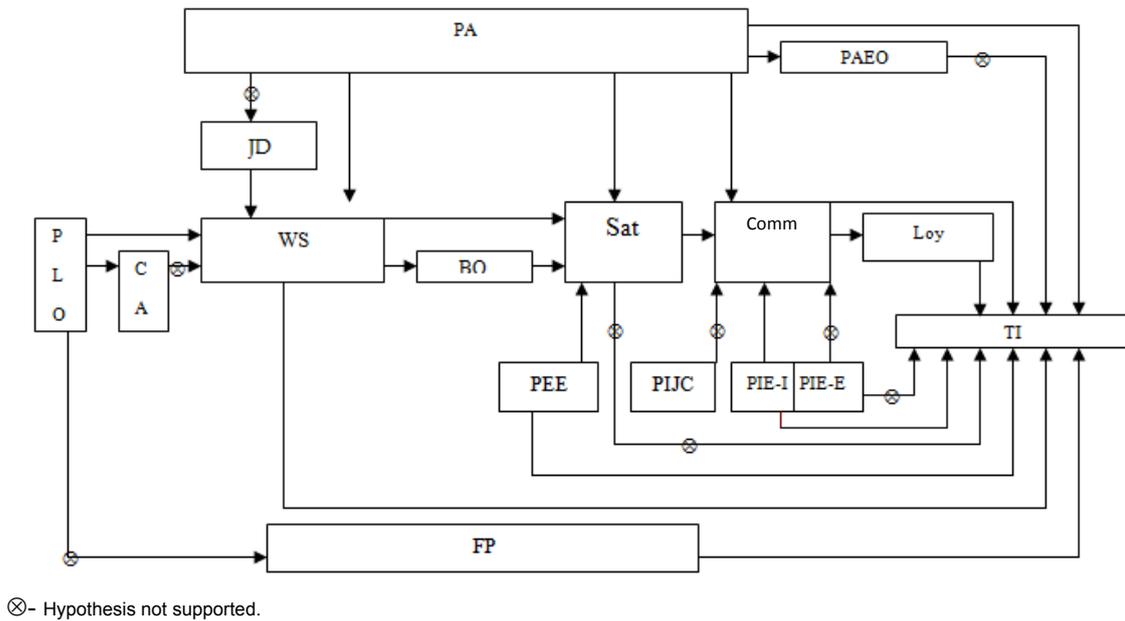


Figure 2: Validated model with supported relationships.

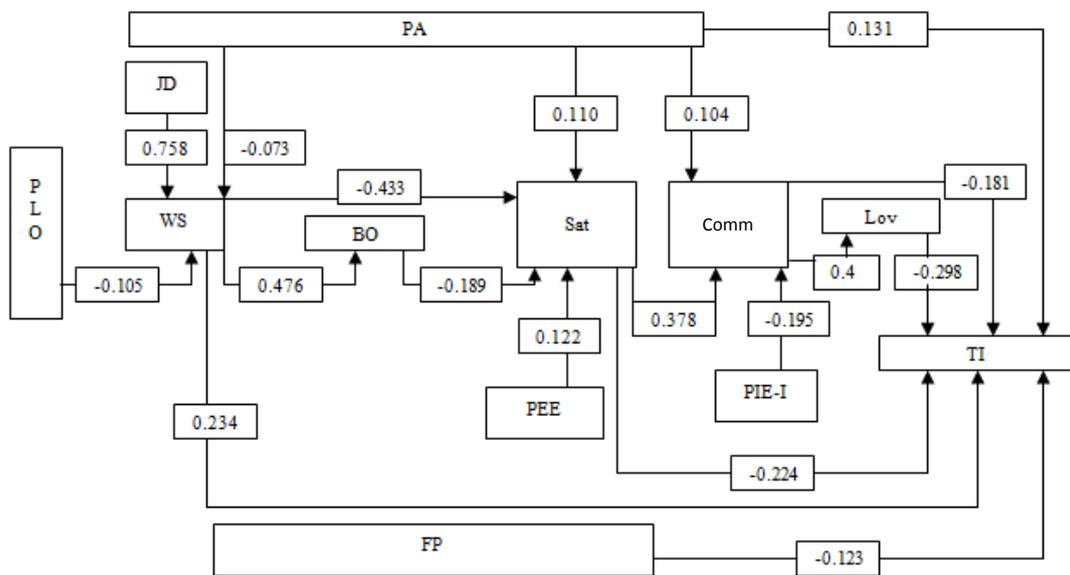


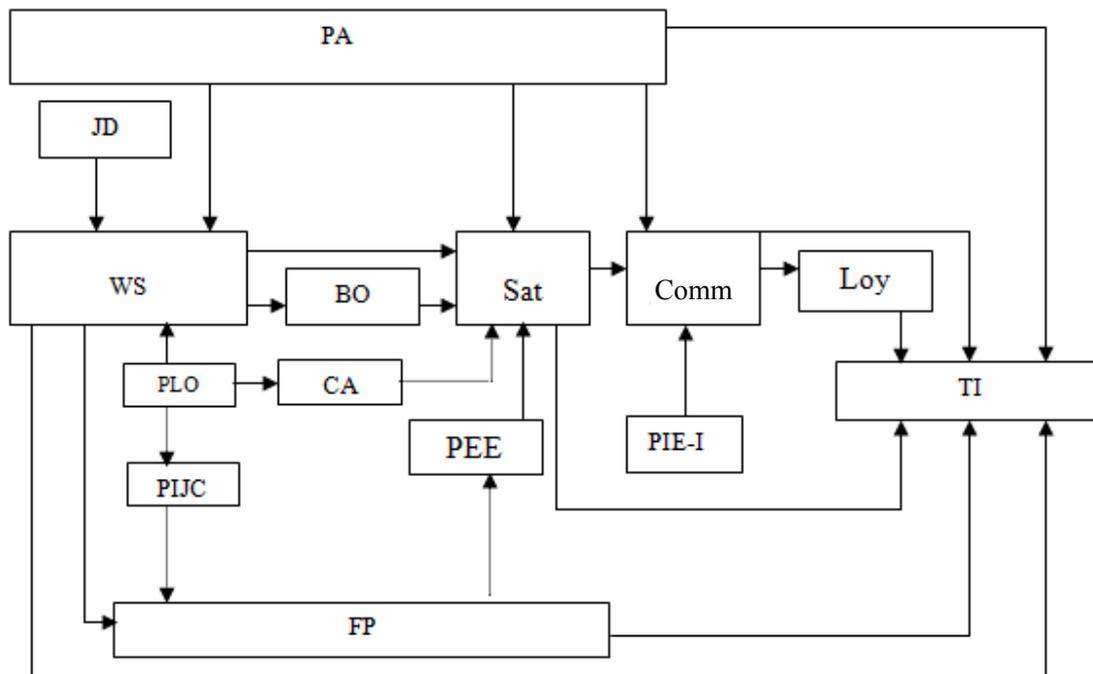
Figure 3: Validated model with its beta weights.

to be significant, adjusted $R^2=0.358$, $F(4,404)=57.917$, $p<0.001$. Independent variables perceived inequity-internal, satisfaction and loyalty significantly influenced commitment. Table 7 compares the independent variable coefficients (Standardized) on commitment between the final model and the alternate model.

From the Tables 7 and 8 it is found that there was an increase in the 'R' measures. The alternate models' R^2 had increased by 0.117 from 0.247 to 0.346 and the adjusted R^2 had increased from 0.241 to 0.358, a difference of 0.117 which was a significant increase. It was also inferred that the personal adequacy failed to influence commitment when loyalty

was included as one among the independent variables. There were no changes in the significance values of the independent variables except for personal adequacy, which implied that loyalty had more predictive power than personal adequacy. The Table 9 shows the final model summary with the changes, based on results of simultaneous regression which was used to determine the path estimates of the model.

The model (Figure 6) is the improved alternate turnover intention model. It can be seen that the path between personal adequacy and commitment had been removed as it was found to be insignificant



Note: Arrows with dotted lines are the newly added paths.
 Figure 4: Validated model with newly added paths.

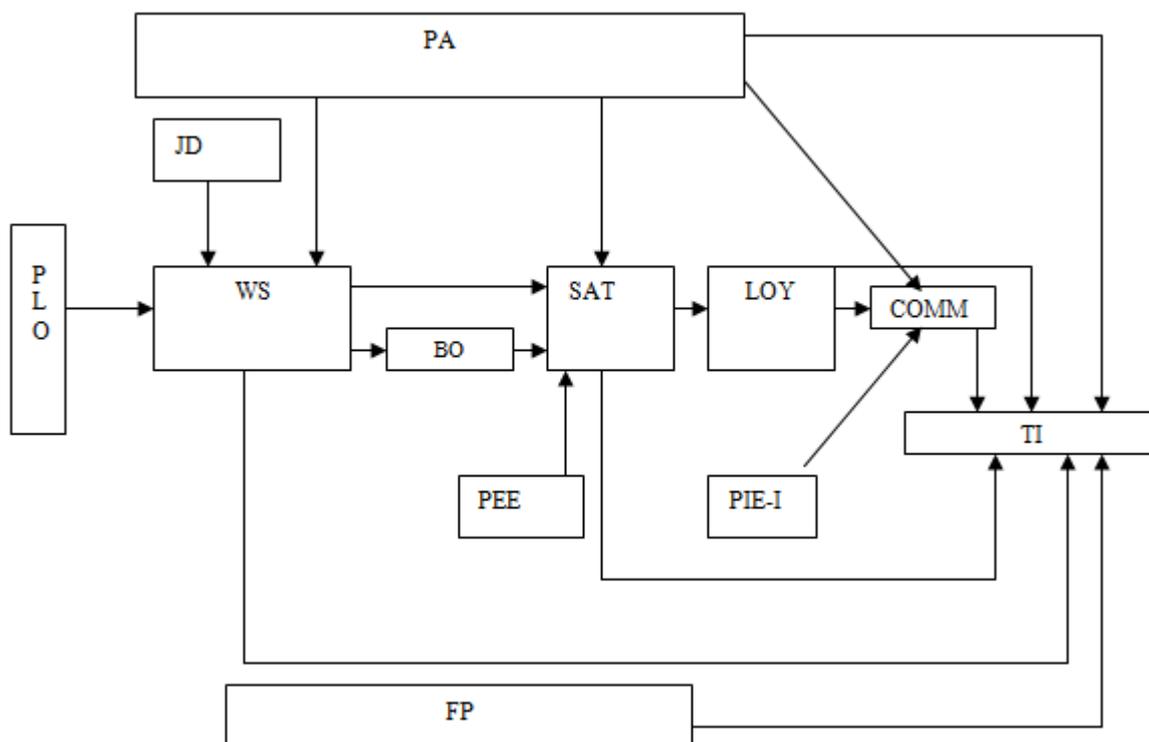


Figure 5: Proposed alternate model.

Dependent Variable	Independent Variables	Un standardized coefficients		Standardized coefficients	t-value	Adj. R ²
		Beta	Std.error	Beta		
TI	Constant	4.796	0.255		18.802***	0.561
	PA	0.149	0.039	0.131	3.851***	
	WS	0.180	0.031	0.234	5.757***	
	FP	-0.138	0.042	-0.123	-3.294**	
	Loy	-0.266	0.037	-0.298	-7.172***	
	Comm	-0.193	0.042	-0.181	-4.610***	
	Sat	-0.214	0.041	-0.224	-5.156***	
Loy	Constant	1.614	0.813		8.802***	0.238
	Comm	0.586	0.052	0.490	11.337***	
Comm	Constant	2.392	0.229		10.448***	0.241
	PA	0.111	0.048	0.104	2.321*	
	PIE-I	-0.138	0.032	-0.195	-4.366***	
	Sat	0.338	0.040	0.378	8.424***	
Sat	Constant	4.084	0.237		07.261***	0.372
	PA	0.131	0.048	0.110	2.723**	
	WS	-0.350	0.036	-0.433	-9.608***	
	BO	-0.191	0.045	-0.189	-4.196***	
	PEE	0.099	0.033	0.122	3.040**	
BO	Constant	1.726	0.097		17.723***	0.226
	WS	0.382	0.035	0.476	10.905***	
WS	Constant	0.458	0.211		2.173*	0.594
	PA	-0.107	0.047	-0.073	-2.258*	
	PLO	-0.139	0.042	-0.105	-3.281**	
	JD	0.970	0.040	0.758	24.001***	
PAEO	Constant	1.975	0.127		15.526***	0.216
	PA	0.0425	0.040	0.465	10.596***	
PLO	Constant	3.909	0.041		33.585***	0.118
	CA	-0.304	0.041	-0.344	-7.384***	

***p<0.001, **p<0.01, *p<0.05.

Table 4: Second-run regression table with significant predictors.

when loyalty as a measure of independent variable was introduced to determine commitment.

Management Implications

Losing good performing employees always had a negative impact on the firm. Employee retention is not only critical for cost efficiency but an important factor in revenue growth because of its link to customer acquisition and retention. There is a clear need for an organization to increase the level of commitment, satisfaction, and loyalty in order to decrease turnover intention of employees. This study demonstrated the effectiveness of model in predicting the turnover intention and its predictors. Management must understand the need for such a model. This study stressed the importance of ‘job challenge’, ‘work autonomy’, ‘organization prospect’, and ‘supervisor-subordinate relationship’ as important factors in determining loyalty, commitment and turnover intention. Lawler argued that a firm’s human resource strategy should be centered on developing skills and ensuring motivation and commitment. The main role of software professional in an organization is to apply information technologies to solve business problems; they must master technical skills and also possess adequate knowledge of organization and business processes. As these professionals have less structured job roles, are required to have inter-disciplinary knowledge and skills and work in a cross functional team, effective leadership

becomes important. The organization thus should stress the importance of effective leadership.

Organizational success in obtaining goals and objectives depends on managers and their leadership style. By using appropriate leadership styles, managers can influence employee job satisfaction, commitment and production. There exists no appropriate leadership style to follow. It all depends on the managers’ ability to influence his/her subordinate to perform at the highest level. This depends on the extent to which the management respects workers, operates with honesty and establishes a high standard of integrity and has open lines of communication with the employees. Thus, the preference of leadership style depends on the type of culture that prevails in that organization. If an organization has open and free culture with much less rigid system and less level of bureaucracy, a free-rein leadership style can be preferred. But at the same time the leadership style also depends on the individual level. An individual with low sense of personal adequacy might expect a more ‘teaching type’ leader than a free rein. A systematic and regular assessment of individual-need status should be carried out for adopting the preferred leadership style. As the software employees nature of job has become complex because of the targets and deadlines fixed, there is a tremendous increase in the job demands which induce stress. Stress has a direct influence on turnover intention and satisfaction.

Hypotheses	Relation		Results
H1: The employees' sense of Personal Adequacy is negatively correlated with job stress.	PA	WS (-ve)	Supported
H2: The employees' sense of Personal Adequacy is positively correlated with the individuals' turnover intention.	PA	TI (+ve)	Supported
H3: The employees' perceived learning opportunity is negatively correlated with job stress.	PLO	WS (-ve)	Supported
H4: The employees' perceived learning opportunity is negatively correlated with their level of career anxiety.	PLO	CA (-ve)	Supported
H5: The employees' career anxiety is positively correlated with their level of job stress.	CA	JS (+ve)	Not Supported
H6: The employees' sense of personal adequacy is positively correlated with their perceived alternate employment opportunities.	PA	PAEO (+ve)	Supported
H7: The employees' perceived alternate employment opportunities are positively correlated with their turnover intention.	PAEO	TI (+ve)	Not Supported
H8: The employees' perceived intrinsic job characteristics are positively correlated with their level of commitment.	PIJC	Com (+ve)	Not Supported
H9: The employees' sense of personal adequacy is negatively correlated with their sense of job demands.	PA	JD (-ve)	Not Supported
H10: The employees' perception on their job demand is positively correlated with their perceived level of stress.	JD	WS (+ve)	Supported
H11: The employees' sense of perceived job stress is negatively correlated with their level of job satisfaction.	WS	Sat (-ve)	Supported
H12: The employees' level of perceived job stress is positively correlated with their level of turnover intention.	WS	TI (+ve)	Supported
H13: The employees' sense of perceived job stress is positively correlated to with their level of job burnout.	WS	JB (+ve)	Supported
H14: The employees' level of burnout is negatively correlated with their sense of job satisfaction.	BO	Sat (-ve)	Supported
H15: The employees' perceived learning opportunity is positively correlated with their fit perceptions.	PLO	FP (+ve)	Not Supported
H16: The employees' perceived fit perceptions are positively correlated with their turnover intention.	FP	TI (-ve)	Supported
H17: Employees' pre-employment expectation is positively correlated with their level of satisfaction and negatively related with their level of turnover intention.	PEE	Sat (+ve) TI (-ve)	Supported Not Supported
H18: The employees' internal perceived inequity is negatively related with their commitment and negatively related with their turnover intention.	PEE-I	Com (-ve) TI (+ve)	Supported Not Supported
H19: The employees' external perceived inequity is negatively related with their commitment and negatively related with their turnover intention.	PEE-E	Com (-ve) TI (+ve)	Not Supported Not Supported
H20: The employees' sense of personal adequacy is positively correlated with their level of organisational commitment.	PA	Com (+ve)	Supported
H21: The employees' level of commitment is negatively correlated with their turnover intention.	Com	TI (-ve)	Supported
H22: The employees' sense of job satisfaction is positively correlated with their level of organisational commitment	Sat	Com (+ve)	Supported
H23: The employees' sense of organisational commitment is positively correlated with their level of organisational loyalty.	Com	Loy (+ve)	Supported
H24: The employees' sense of organisational loyalty is negatively correlated with their turnover intention.	Loy	TI (-ve)	Supported
H25: The employees' sense of personal adequacy is positively correlated with their level of job satisfaction.	PA	Sat (+ve)	Supported
H26: The employees' sense of job satisfaction is negatively correlated with their turnover intention.	Sat	TI (-ve)	Supported

Table 5: Results of the test of hypotheses.

The organization should try to reduce the induced level of stress. The software employees are thus becoming more workaholic and work in boundary-less time limit. The stress levels of new recruits are higher when compared to experience workers in a particular organization and the level of stress also increases if there exists a person-environment misfit. Stress management does not involve the total elimination of stressors; rather it is a reduction of stress to levels commensurate with tolerance and needs of individuals. Organization should give more importance to reduce the level of organizational stressors related to the job. Attaching importance to the organizational socialization process, education on human relations, social support system, and better communication system can lead to effective measures. It is important for the organizations to develop programmes for the early identification of stress, strain and the related health problems. For example, if this diagnosis reveals that time pressure, role in clarity and perceived learning opportunity are the stressors then these stressors can be reduced by job rotation and job enlargement which would increase the fit of an individual. When the organizations are able to reduce the stress level, they can have a work group with less fatigue, more commitment

and high loyalty. The major problem that any organization faces in developing the retention strategies concerns payment. Almost all employees who quit voluntarily indicate less pay as the cause for their withdrawal. Even if at one end it can be considered as a socially desirable reason, on the other end this 'payment' as a reason should be seriously considered. As a number of software organizations are started in the country, job hopping and job hunting has increased tremendously. The qualified individuals are in great demand. The labor market is growing to a position where the demand will exceed the supply. The qualified employees thus enjoy an advantageous position to dictate their terms. Organizations are ready to pay as per the demands of the individual. Often an individual quits on payment dissatisfaction, and he opts for higher payment. Organizations should concentrate on this particular phenomenon and pay the employees by benchmarking the industry standards. The IT employees tend to bring with them strong individual skills and personal characteristics. As the organization recognizes and approves those skills and personal characteristics, IT employees should perceive greater fit with the organization's values and norms and they

Independent Variable	Un standardised coefficient		Standardised coefficient	t value	Sig
	Beta	Std.error	Beta		
Personal adequacy	0.06	0.044	0.56	1.354	0.176
Perceived inequity-internal Satisfaction	-0.176	0.029	-0.248	-5.969	0.000***
Loyalty	0.177	0.041	0.198	4.28	0.000***
(Constant)	0.328	0.038	0.393	8.635	0.000***
	2.018	0.215		9.385	0

ANOVA: F= 57.917 df (4,404) Significance value=0.000
R=0.604 R square=0.364 Adjusted R square=0.358
Dependent Variable: Commitment

Table 6: Simultaneous regression table for commitment.

Independent Variables	Standardised coefficients		t value		Significance	
	Beta		Final	Alt	Final	Alt
	Final	Alt				
PA		0.056	2.321	1.354	0.021	0.176
PIE-I	0.104	-0.248	-4.366	-5.969	0.000	0.000
Sat	-0.195	0.198	8.424	4.287	0.000	0.000
Loy*	0.378	0.393		8.653	0.000	0.000

Dependent variable: Commitment

* Added independent variable in the alternate model.

Table 7: Comparison of regression measures of commitment.

Measures	Final	Alternate
Constant:		
Beta	2.392	2.018
Std. Error	0.229	0.215
t- value	10.448	9.385
Significance	0.000	0.000
Model Summary:		
R	0.497	0.604
R ²	0.247	0.364
Adjusted R ²	0.241	0.358

Table 8: The Comparative measures of final and alternate model.

would tend to experience less role stress, high job satisfaction, and higher organizational commitment and will be less likely to leave the organization.

Suggestions for Further Research

According to the results, the data fit the model adequately. However, there were several paths that were not significant. It is suggested that the future researchers should explore alternative models to investigate whether a modified model would better explain the turnover intention.

A longitudinal study that includes the actual quitting should be investigated for further improvement in the explanation of the model on turnover intention. Based on the zero order correlation, relationships were found between career anxiety and satisfaction; fit perception and perceived intrinsic job characteristics, personal adequacy and pre-employment expectations. It would be interesting to investigate these relationships further for enhancing the fit of the model.

Conclusion

Based on the preceding discussion of results, a few conclusions could be drawn from this study. It is hoped that this study has achieved one of its primary goals in developing a turnover intention model for software employees based on their opinions on work and non-work-related factors. The study's second aim was to increase the predictive power of the final model.

The Researchers had assessed, to the extent possible, the direct and indirect effects of various factors influencing the turnover intention. The single most factors that had the highest influencing power on the turnover intention were found to be loyalty in both the final and the alternate model of turnover intention. Further examinations on the influences of specific aspects of job satisfaction on turnover intention revealed 'challenging job' had more influencing power than the other satisfaction dimensions. Further the study also revealed the major dimensions of satisfaction and their influence on commitment and loyalty. Given this, it can be concluded that organizations, which try to increase the employees' level of commitment and loyalty, can build strategies on the specific dimensions of satisfaction that influence loyalty and commitment. The study has tried to track the antecedents of turnover intention. The study has presented critical implications to the management and provided them with research-based knowledge on the turnover intention of the employees in the organizational development field. Prior to this study only a few studies were conducted in the field of information technology and especially among the software professionals. Many models on turnover intention and many pieces of research on turnover intention exist but in a different organizational set up and different industries. This study on the development of employee turnover intention mode, could serve as a catalyst for future researchers for a better understanding of the employee-quitting behaviour.

Dependent Variable	Independent Variables	Unstd. Coeff.		Std. coeff	t-value	Adj. R ²	Position
		Beta	S.E	Beta			
TI	Constant	4.796	0.255		18.802***	0.561	Unchanged
	PA	0.149	0.039	0.131	3.851***		
	WS	0.180	0.031	0.234	5.757***		
	FP	-0.138	0.042	-0.123	-3.294**		
	Loy	-0.266	0.037	-0.298	-7.172***		
	Comm	-0.193	0.042	-0.181	-4.610***		
	Sat	-0.214	0.041	-0.224	-5.156***		
Loy	Constant	1.614	0.813		8.802***	0.238	Unchanged
	Comm	0.586	0.052	0.490	11.337***		
Comm	Constant	2.392	0.229		10.448***	0.241	Changed
	PA	0.111	0.048	0.104	2.321*		
	PIE-I	-0.138	0.032	-0.195	-4.366***		
	Sat	0.338	0.040	0.378	8.424***		
Sat	Constant	4.084	0.237		07.261***	0.372	Unchanged
	PA	0.131	0.048	0.110	2.723**		
	WS	-0.350	0.036	-0.433	-9.608***		
	BO	-0.191	0.045	-0.189	-4.196***		
	PEE	0.099	0.033	0.122	3.040**		
BO	Constant	1.726	0.097		17.723***	0.226	Unchanged
	WS	0.382	0.035	0.476	10.905***		
WS	Constant	0.458	0.211		2.173*	0.594	Unchanged
	PA	-0.107	0.047	-0.073	-2.258*		
	PLO	-0.139	0.042	-0.105	-3.281**		
	JD	0.970	0.040	0.758	24.001***		
PAEO	Constant	1.975	0.127		15.526***	0.216	Unchanged
	PA	0.0425	0.040	0.465	10.596***		
PLO	Constant	3.909	0.041		33.585***	0.118	Unchanged
	CA	-0.304	0.041	-0.344	-7.384***		

*** p<0.001, **p<0.001, *p<0.05.

Table 9: Summary of measures of the alternate model.

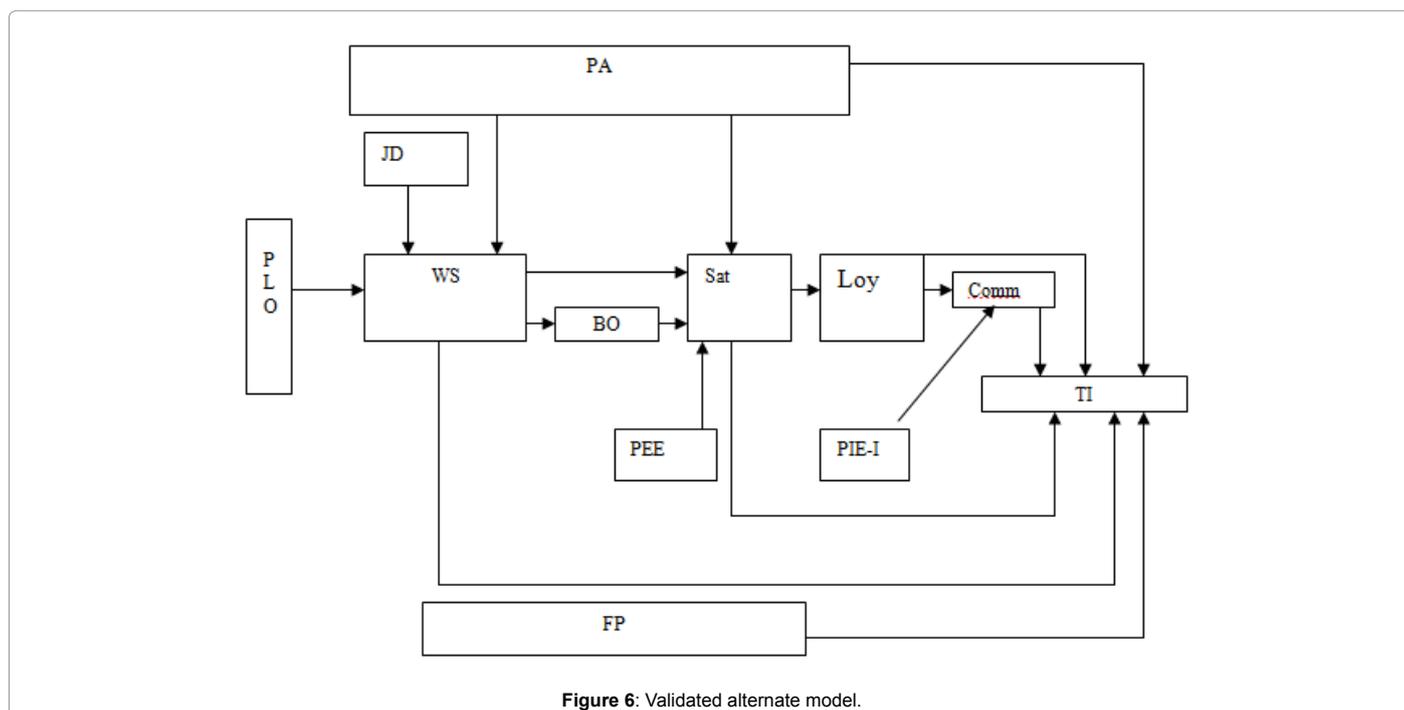


Figure 6: Validated alternate model.

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