The effect of Data Mining on Biofuel researches to predict the optimal answers: finding the suitable light intensity and ferric ion concentration for best influence on lipid characteristics and fatty acid profile of freshwater Microalgae for biodiesel production

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The present paper was purposed to expose the necessity of using computer science among biofuel researches, especially In terms of cost and time. It also introduced data mining using R language programming and its capabilities and features. In continuation, the paper exposed the predicted results for two researches and measuring the accuracy of these predictions under the lab circumstances:

1-To predict the suitable light intensity on the lipid Accumulation properties of a freshwater microalga Chlorococcum Oleofaciens KF584224.1 to get the highest lipid content.

2-To predict the effects of different ferric ion concentrations on lipid accumulation, and fatty acid profile of freshwater microalga Chlorococcum Oleofaciens KF584224.

Biography:

Erfan passed Computer Engineering Course several years ago and has gotten such different international certificates as Cisco and Microsoft. He also has some ISI papers in Computer Science. He works as a programmer in such various languages as JAVA, C#, R and Python and hired for data processing purposes at FANAP Company, Tehran, Iran

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