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TREQUANT- Tremor quantifying wearable for movement disorder patients

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Trequant is a bio-informatics wearable designed specifically for diagnosing and classifying tremor based movement disorders including Parkinson's, essential tremor, dystonia and others. Tremors affects 221 million people worldwide including 15 million from USA and it is one of the most prevalent and incurable neurological disorder. The complete end-to-end solution we are providing includes a wearable device, an app on a mobile device, and our data analytics platform in the cloud. Currently Trequant device is being used by more than 50 patients and 2 hospitals. With the results and data recorded from our device, doctors are better able to understand their patient's condition and with the help of our remote monitoring portal and they can see the effect of the prescribed medicine and can customize the type and dosage of the medicine according to every individual patient. Mobile app also helps patients in understanding what type of activities can make their tremors condition worse or good. At Trequant, we are all about having people that are afflicted with tremors live a more independent life and be more in control of their condition and actionable data is the answer to this.

Biography

Muhammad Faizan Sadaqat has completed his Electrical Computer Engineering from COMSATS Institute of Information Technology, Pakistan. He has built sound technical base by working on diverse projects related to bio-medical, automotive, big data analysis, extensive computation, electrical and electronics. In the field of MRI, he has earned name by accelerating MR image reconstruction time from minutes to msec. Implementation of MRI reconstruction algorithm on GPU is one of his biggest achievement. He has published research paper in reputed journal and presented in several prestigious conferences.

Usman Shabbir, the CTO & cofounder of Trequant, is an Electrical Engineer and Electronics Expert by profession. He has interest in wearable gadgets, embedded systems and miniaturization of circuits. A passionate person about robotics and artificial intelligence has done different projects on automation of things and robots. He is the hardware geek for Trequant and currently working on hardware design and engineering. He has won fifteen national and international awards presenting his work at different stages.

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