PROBLEM STATEMENT

Detecting Parkinson's Disease Using Machine Learning

John has been noticing some symptoms in his body such as anxiety, insomnia, dementia etc for few weeks. He is having a doubt whether he is having any disease. On researching about the symptoms, he gets to know about Parkinson's disease. So now, he wanted to know by himself whether he is having the disease or not. It may be a website/ application that inputs image from the user and detects the presence of Parkinson's disease.

Who does the problem affect?	Around 1 in 500 people are affected by Parkinson's disease. Most people with Parkinson's disease start to develop symptoms when they are over 50, although around 1 in 20 people with the condition first experience symptoms when they are under 40. Men are slightly more likely to get Parkinson's disease than women.
What are the boundaries of the problem?	Doctors, Medical technicians as well as the common people.
What is the issue?	Parkinson's disease (PD) is a chronic, progressive, neurodegenerative disorder which begins when a certain area of the brain has been damaged. PD diagnosis at the earlier stage is very crucial for the survival of patients.
When does the issue occur?	Young adults rarely experience Parkinson's disease. It ordinarily begins in middle or late life, and the risk increases with age. People usually develop the disease around age 60 or older.
Where is the issue occurring?	The most prominent signs and symptoms of Parkinson's disease occur when nerve cells in the basal ganglia, an area of the brain that controls movement, become impaired and/or die.

Why is it important that we fix the problem?	By solving this problem, the treatments are more likely to improve the quality life of the patients and their families.