Explainable Parkinson's Disease Detection Models Using LIME

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***Abstract*—Trend setting innovation, like Data Science, can be utilized to discover answers for clinical science issues by utilizing information and applying Machine Learning Algorithms to it, to draw bits of knowledge and examples from the information and recognize conceivable outcomes. This is our way to deal with figuring out how to distinguish Parkinson's infection at a beginning phase and to give essential treatment quickly by consolidating Machine Learning and Data Science. The task would show Data Science cycles and techniques for removing information and bits of knowledge from a lot of information. AI calculations are applied to a patient's informational collection, and their correctness are thought about. Then, at that point, we acquaint ourselves with the XAI technique to discover the exhibition assessment of each AI model. The model with the most noteworthy exactness is most appropriate to foreseeing objective qualities for obscure information esteems. By joining Medical Science and Data Science with Machine Learning, PD could be recognized before and the fundamental therapy would be adequate for a patient to recuperate at a decent rate.**

***Keywords*—Machine Learning (ML), Explainable AI (XAI), Parkinson's Diseases (PD), Data-set, Algorithm's Accuracy**