PROJECT DESIGN PHASE-I

SOLUTION ARCHITECTURE

Date	30 September 2022
Team ID	PNT2022TMID28464
Project Name	Detecting Parkinson's Disease Using Machine Learning
Maximum Marks	2 Marks

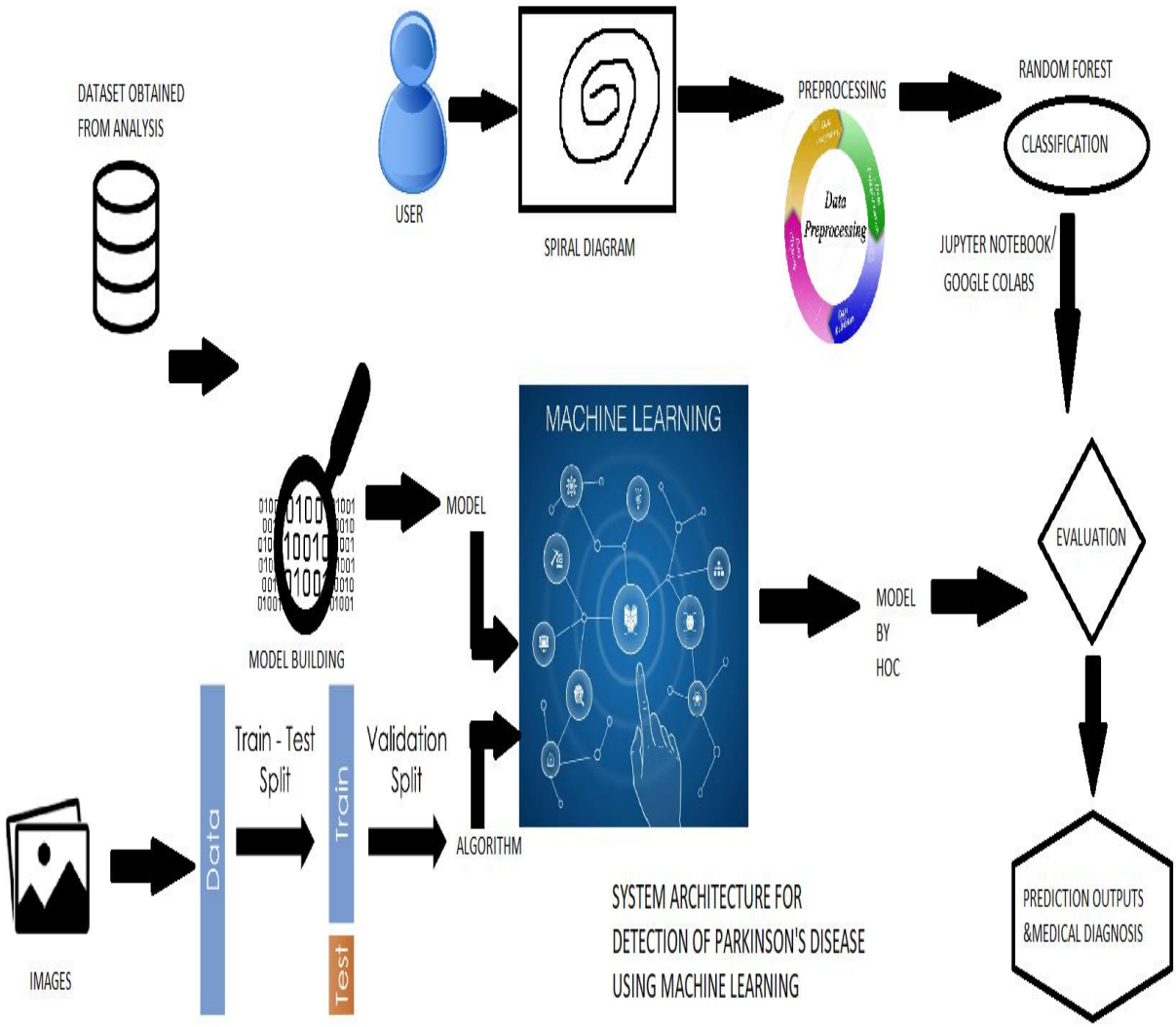
PROBLEM STATEMENT:

More than 10 million people are living with Parkinson's Disease worldwide, according to the Parkinson's Foundation. While Parkinson's cannot be cured, early detection along with proper medication can significantly improve symptoms and quality of life. Parkinson's disease disorder is a brain disorder that causes unintended or uncontrollable movements, such as shaking, stiffness, and difficulty with balance and coordination. The researchers found that the drawing speed was slower and the pen pressure is lower among Parkinson's patients. One of the indications of Parkinson's is tremors and rigidity in the muscles, making it difficult to draw smooth spirals and waves. It is possible to detect Parkinson's disease using the drawings alone instead of measuring the speed and pressure of the pen on paper.

SOLUTION ARCHITECTURE:

Solution architecture is the process of developing solutions based on predefined processes, guidelines and best practices with the objective that the developed solution fits within the enterprise architecture in terms of information architecture, system portfolios, integration requirements and many more.

It can then be viewed as a combination of roles, processes and documentation that are intended to address specific business needs, requirements or problems through the design and development of applications and information systems.



SYSTEM ARCHITECTURE FOR
DETECTION OF PARKINSON'S DISEASE
USING MACHINE LEARNING