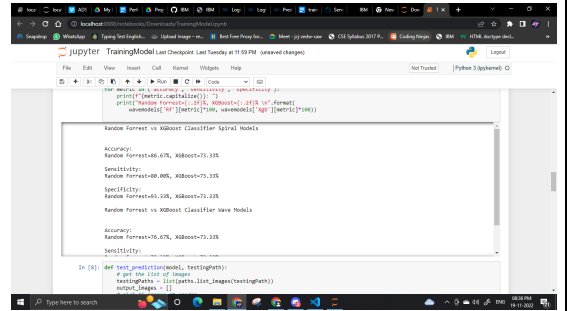


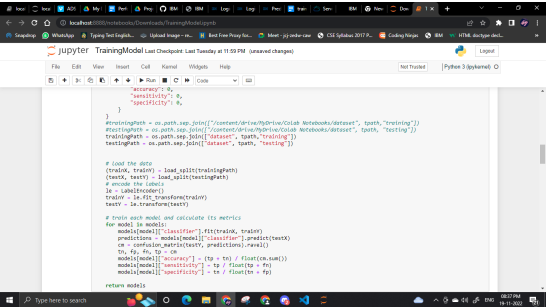
Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID34818
Project Name	Project - Detecting Parkinson's Disease using Machine Learning
Maximum Marks	10 Marks

Model Performance Testing:

Project team shall fill the following information in the model performance testing template.

S.No.	Parameter	Values	Screenshot
1.	Metrics	<p>Classification Model:</p> <p>Spiral Models:</p> <p>Random Forest :</p> <p>Accuracy: 83.33%</p> <p>Sensitivity: 73.33%,</p> <p>Specificity: 93.33%,</p> <p>XGBoost :</p> <p>Accuracy: 60.00%</p> <p>Sensitivity: 93.33%</p> <p>Specificity: 26.67%</p> <p>Wave Models:</p> <p>Random Forest :</p> <p>Accuracy: 66.67%,</p> <p>Sensitivity: 60.00%,</p> <p>Specificity: 73.33%,</p> <p>XGBoost :</p> <p>XGBoost=53.33%</p> <p>XGBoost=93.33%</p> <p>XGBoost=13.33%</p>	 <pre> jupyter TrainingModel Last Changed: Last Tuesday at 10:58 PM (autosaved changes) Random Forest vs XGBoost Classifier Spiral Models Accuracy: Random Forest=83.33%, XGBoost=73.33% Sensitivity: Random Forest=93.33%, XGBoost=73.33% Specificity: Random Forest=93.33%, XGBoost=73.33% Random Forest vs XGBoost Classifier Wave Models Accuracy: Random Forest=66.67%, XGBoost=73.33% Sensitivity: Random Forest=60.00%, XGBoost=73.33% Specificity: Random Forest=73.33%, XGBoost=73.33% In [1]: def test_prediction(model, testingPath): # get the list of images testingPaths = list(paths.list_images(testingPath)) output_images = [] </pre>

2.	Tune the Model	<p>Hyperparameter Tuning - Validation Method -</p> <p>Wave :</p> <p>Training data:70%</p> <p>Testing data : 30%</p> <p>Spiral:</p> <p>Training data:70%</p> <p>Testing data : 30%</p>	
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