

TrainingModel.ipynb

```
[ ] spiralmodels=train_model("spiral")
    wavemodels=train_model("wave")

print("Random Forrest vs XGBoost Classifier Spiral Models\n\n")
for metric in ("accuracy", "sensitivity", "specificity"):
    print(f"{metric.capitalize()}: ")
    print("Random Forrest={:.2f}%, XGBoost={:.2f}% \n".format(
        spiralmodels['Rf'][metric]*100, spiralmodels['Xgb'][metric]*100))
print("Random Forrest vs XGBoost Classifier Wave Models\n\n")
for metric in ("accuracy", "sensitivity", "specificity"):
    print(f"{metric.capitalize()}: ")
    print("Random Forrest={:.2f}%, XGBoost={:.2f}% \n".format(
        wavemodels['Rf'][metric]*100, wavemodels['Xgb'][metric]*100))
```

Random Forrest vs XGBoost Classifier Spiral Models

Accuracy:
Random Forrest=76.67%, XGBoost=73.33%

Sensitivity:
Random Forrest=66.67%, XGBoost=73.33%

Specificity:
Random Forrest=86.67%, XGBoost=73.33%

Random Forrest vs XGBoost Classifier Wave Models

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```
[ ] testingpath = os.path.sep.join(["/content/drive/myDrive/colab Notebooks/dataset/wave", "testing"])
    test_prediction(wavemodels['Rf']["classifier"], testingpath)
```

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