



Model Development Phase

| Date | 15 July 2024 | |
|---------------|---------------------------------|--|
| Team ID | 866654 | |
| Project Title | Thyroid Classification using ML | |
| Maximum Marks | 4 Marks | |

Initial Model Training Code, Model Validation and Evaluation Report

The initial model training code will be showcased in the future through a screenshot. The model validation and evaluation report will include classification reports, accuracy, and confusion matrices for multiple models, presented through respective screenshots.

Initial Model Training Code:





Model Validation and Evaluation Report:

| Model | Classificat | ion Report | | Accuracy | Confusion Matrix |
|--------------------------------|--|---|--------------------------------|----------|--|
| Random forest Classifier | print(classification_report(y_tes precision compensated hypothyroid 0.80 negative 1.00 accuracy macro avg 0.99 weighted avg 0.90 | 0 recall f1-score su 0 0.88 0.86 0 1.00 1.00 0.99 0.94 0.93 | 24 833 917 917 917 | 99.86% | <pre>confusiorMatrix = confusion_matrix(y_train,x_pred) print("Confusion Matrix:",confusionMatrix) Confusion Matrix: [[3534</pre> |