Model Development Phase Template

Date	10 June 2024
Team ID	739643
Project Title	Online Payment Fraud Detection
Maximum Marks	6 Marks

Model Selection Report

This report outlines the selection of models suitable for managing and optimizing the temperature in a smart home. The goal is to enhance energy efficiency, comfort, and overall system performance using predictive and adaptive modeling techniques.

Model	Description	Hyperparameters	Performance Metric (e.g., Accuracy, F1 Score)
Random Forest Classifier	A Random Forest Classifier is a type of supervised machine learning algorithm that combines multiple decision trees to predict outcomes.	-	Accuracy score = 99%
Decision Tree Classifier	A Decision Tree Classifier is a type of supervised machine learning algorithm that uses a tree-like model to predict outcomes.	-	Accuracy score = 99%
Extra Trees Classifier	An Extra Tree Classifier is a type of supervised machine learning algorithm that uses a collection of decision trees to predict outcomes. It's similar to a Random Forest Classifier, but with some key differences.	-	Accuracy score = 99%

XGboost	XGBoost (Extreme Gradient Boosting) is a popular open-source machine learning library that implements the gradient boosting algorithm. It's widely used for classification and regression tasks	-	Accuracy score = 99%