Model Development Phase Template

Date	26 JUNE 2024
Team ID	739711
Project Title	Movie Box Office Gross Prediction
Maximum Marks	6 Marks

Model Selection Report

In the forthcoming Model Selection Report, various models will be outlined, detailing their descriptions, hyperparameters, and performance metrics, including Accuracy or F1 Score. This comprehensive report will provide insights into the chosen models and their effectiveness.

Model Selection Report:

Model	Description	Hyperparameters	Performance Metric (e.g., Accuracy, F1 Score)
Linear Regression	"This model predicts the box office gross based on a linear relationship between features like budget, star power, genre, and release date."	"Regularization strength (alpha), fit_intercept (True/False)"	"Performance Metric: R-squared value, Mean Absolute Error (MAE)"
Random Forest Regressor	"This ensemble model uses multiple decision trees to	"Number of trees (n_estimators), maximum depth (max_depth),	Performa+nce metric

	predict the box office gross. It can capture non-linear relationships and interactions between features.	minimum samples split (min_samples_split)"	