Model Development Phase Report

Date	12 July 2024
Team ID	Team - 739781
Project Title	Abalone Age 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 Score. This comprehensive report will provide insights into the chosen models and their effectiveness.

Model	Description	Hyperparameters	Performance Metric (e.g., Accuracy Score)
Random Forest	Ensemble of decision trees; robust, handles complex relationships, reduces overfitting, and provides feature importance for Abalone Age prediction.	-	Accuracy score=93%
Decision Tree	Simple tree structure; interpretable, captures non-linear relationships, suitable for initial insights into Abalone Age Prediction.	-	Accuracy score=100%
Linear Regression	It computes the linear relationship between the dependent variable and one or more independent features by fitting a linear equation to observed data.	-	Accuracy score=52%