Model Development Phase Template

Date	4 July 2024
Team ID	740059
Project Title	Honey price prediction based on purity
Maximum Marks	5 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	Hyperparameter	Performance Metrics(eg:RSquare)
Linear Regression	A simple and interpretable model that assumes a linear relationship between the input variables and the target. Suitable for datasets with linear correlations.	---	R-Square = -3.2502641
Decision Tree	Simple tree structure; interpretable, captures non-linear relationships, suitable for initial insights into loan approval patterns	---	R-square=0.99999956029

| Rand om Fores t | Ensemble of decision trees; robust, handles complex relationships, reduces overfitting, and provides feature importance for loan approval prediction. | Max depth | R^2=0.9999956045 |