

## Model Development Phase Template

Date	15 July 2024
Team ID	SWTID1720171884
Project Title	Predicting Compressive Strength Of Concrete Using Machine Learning
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)
Gradient Boosting Regressor	The GradientBoostingRegressor is used to predict the compressive strength of concrete by iteratively improving weak prediction models through gradient descent. It combines multiple decision trees to minimize prediction errors and enhance accuracy	---	<pre>scorengr.score(x_test,y_test) score [79] 0.8867788668493143</pre> <p>Accuracy Score=88%</p>