

## Model Development Phase

Date	July 2024
Team ID	740714
Project Title	Occupancy Rates and Demand in the Hospitality Industry
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 Metrics
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Logistic Regression	Models the relationship between a dependent variable and one or more independent variables by fitting a linear equation. Useful for predicting global active power.	-	Accuracy = 99.83
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SVC	SVM stands for Support Vector Machine. It is used to find hyperplane between two classes.	-	Accuracy = 99.88
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Decision Tree Classifier	An ensemble technique that builds trees sequentially, where each tree corrects errors made by the previous one.	-	Accuracy = 99.85
K-Neighbors Classifier	It is used for classification and regression. It is a simple and instance-based learning algorithm.	-	Accuracy = 99.89