# Model Development Phase Template

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| Date | 11-07-2024 |
| Team ID | 739955 |
| Project Title | SMOKE DETECTION USING IOT DATASET |
| 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) |
|---|---|---|---|
| Decision tree classifiee | A decision tree classifier is a supervised learning algorithm that splits data based on feature values to form a tree structure for predicting target variables. | - | 0.99 |

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|---|---|---|---|
| Logistic Regression | Logistic regression is a supervised learning algorithm used for binary classification that models the probability of a categorical outcome using a logistic function. | - | 0.96 |
| KNN | The k-nearest neighbors (KNN) algorithm is a supervised learning method that classifies data points based on the labels of their k closest neighbors in the feature space. | - | 0.99 |