Model	Description	Hyperparameters	Performance Metric (e.g., Accuracy, F1 Score)
Random Forest	**Random Forest**: Implemented using scikit-learn's RandomForestClassifier. **Parameters**: Adjusted parameters like number of trees, maximum depth of trees, and minimum samples per leaf through grid search and cross-validation.	-	Accuracy score = 97%
Decision Tree	The Decision Tree model shows promising performance in predicting lifestyle changes due to COVID-19, with decent accuracy and interpretability.	-	Accuracy score = 99%
Logistic Regression	The Logistic Regression model demonstrates solid performance in predicting lifestyle changes due to COVID-19, with good accuracy and	-	Accuracy score = 82%

	interpretability. It provides valuable insights into the factors influencing behavior changes during the pandemic, which can inform public health strategies and interventions effectively.		

Model Development Phase Template

Date	21 June 2024
Team ID	740002
Project Title	Life Style Change Due To Covid Prediction
Maximum Marks	6 Marks

Model Selection Report

The COVID-19 pandemic has had a profound impact on individuals' lifestyles globally. Understanding these changes can provide valuable insights for public health interventions and policy-making. This report details the process of selecting a suitable predictive model to forecast lifestyle changes due to COVID-19.