

Model	Description	Hyperparameters	Performance Metric (e.g., Accuracy, F1 Score)
Random Forest	<p>Random Forest: Implemented using scikit-learn's RandomForestClassifier.</p> <p>Parameters: Adjusted parameters like number of trees, maximum depth of trees, and minimum samples per leaf through grid search and cross-validation.</p>	-	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.		
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Model Development Phase Template

Date	21 June 2024
Team ID	740142
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.

