

Sentiment Analysis

This app predicts the sentiment of restaurant reviews!

Enter a review

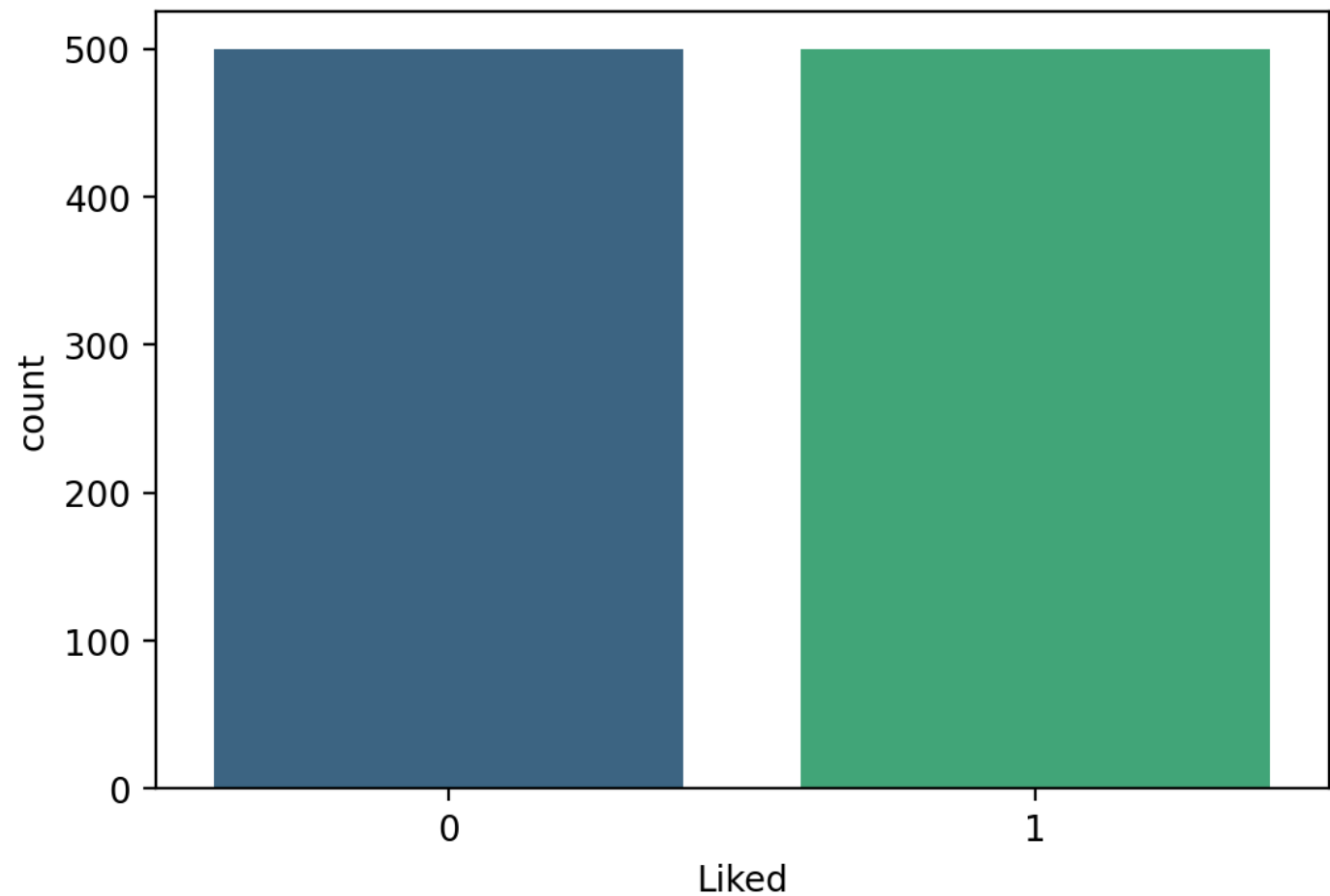
Best dining experience I've had in a long time. The ambiance was perfect, and the dessert was heavenly.

Predict Sentiment



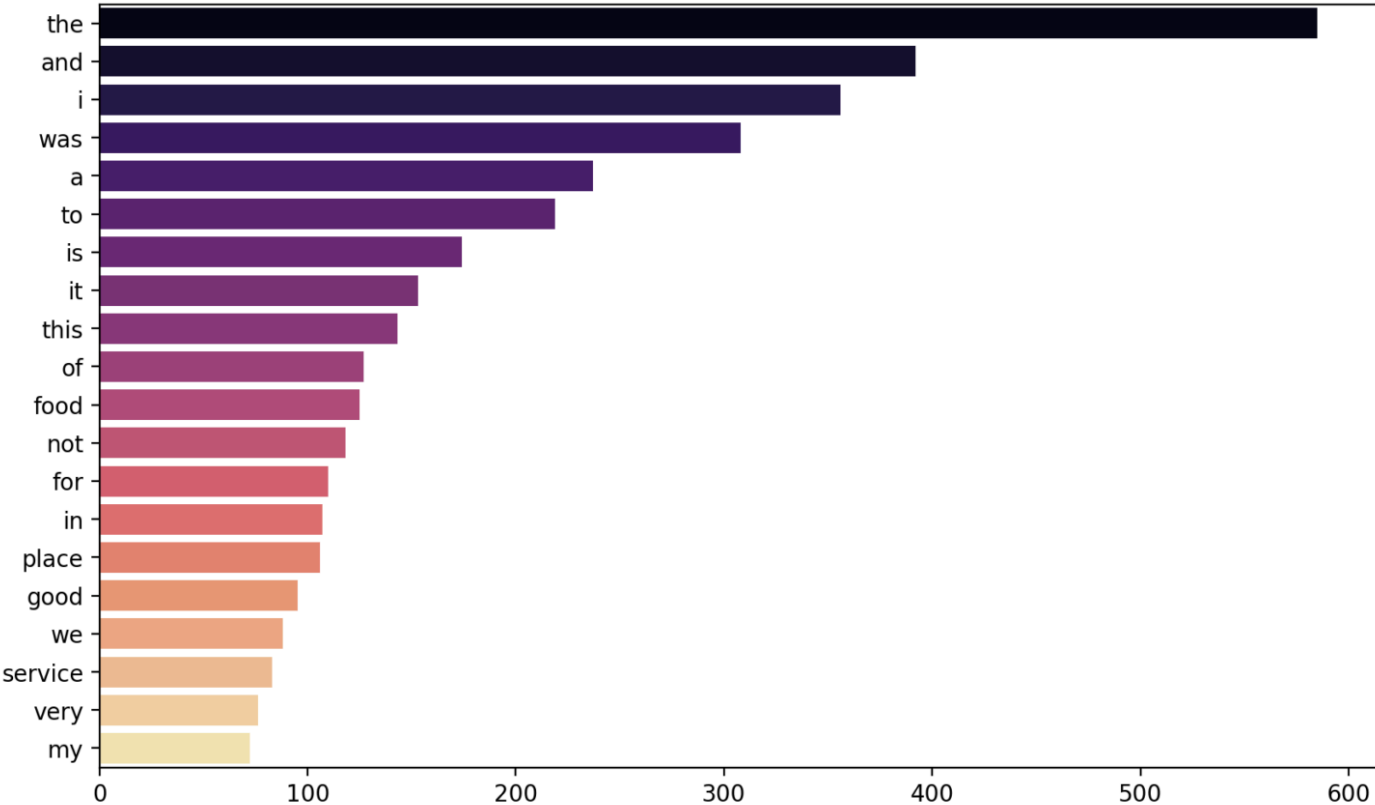
The sentiment of the review is: **Positive**

Class Distribution



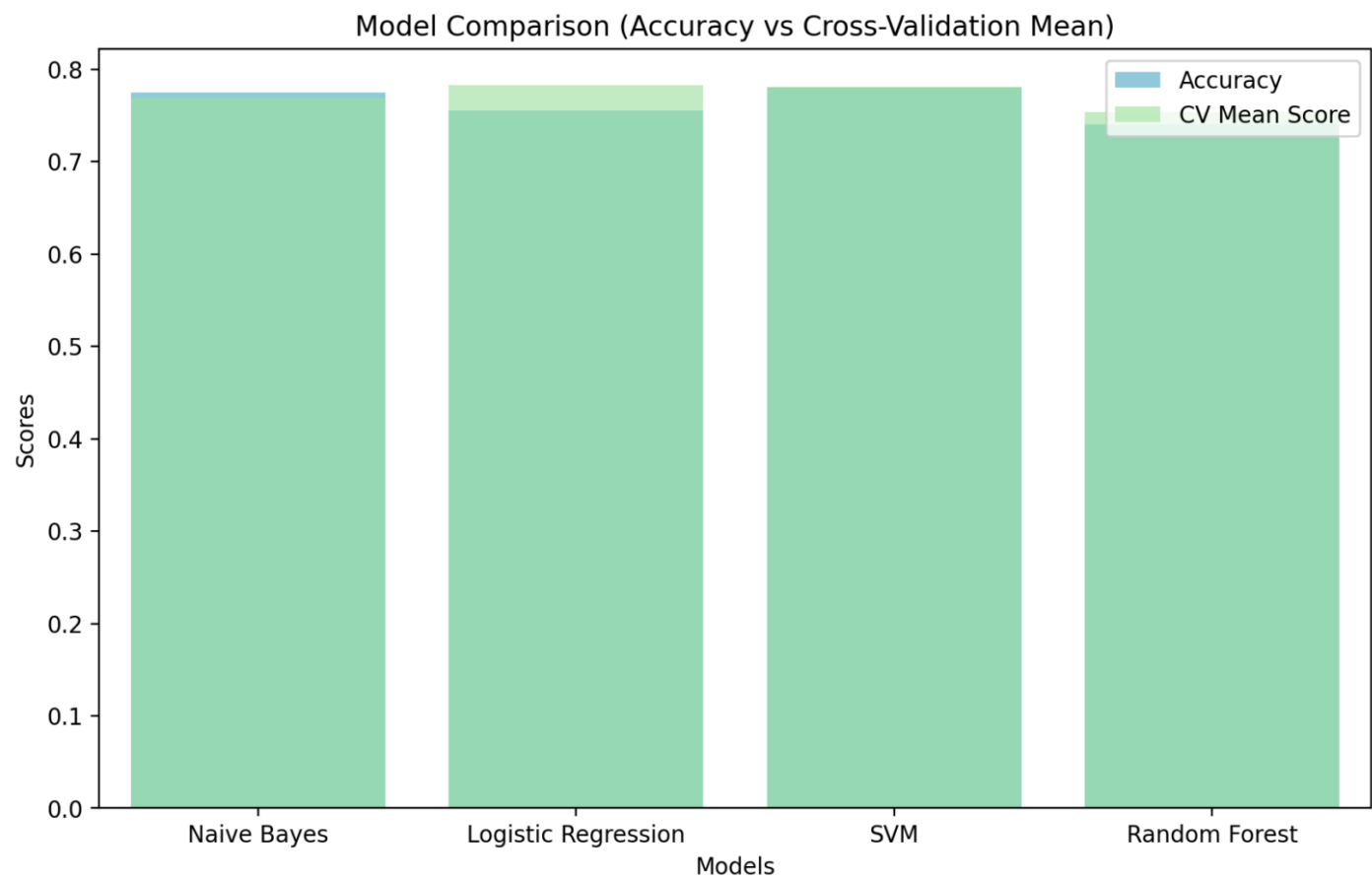
Word Cloud of Reviews



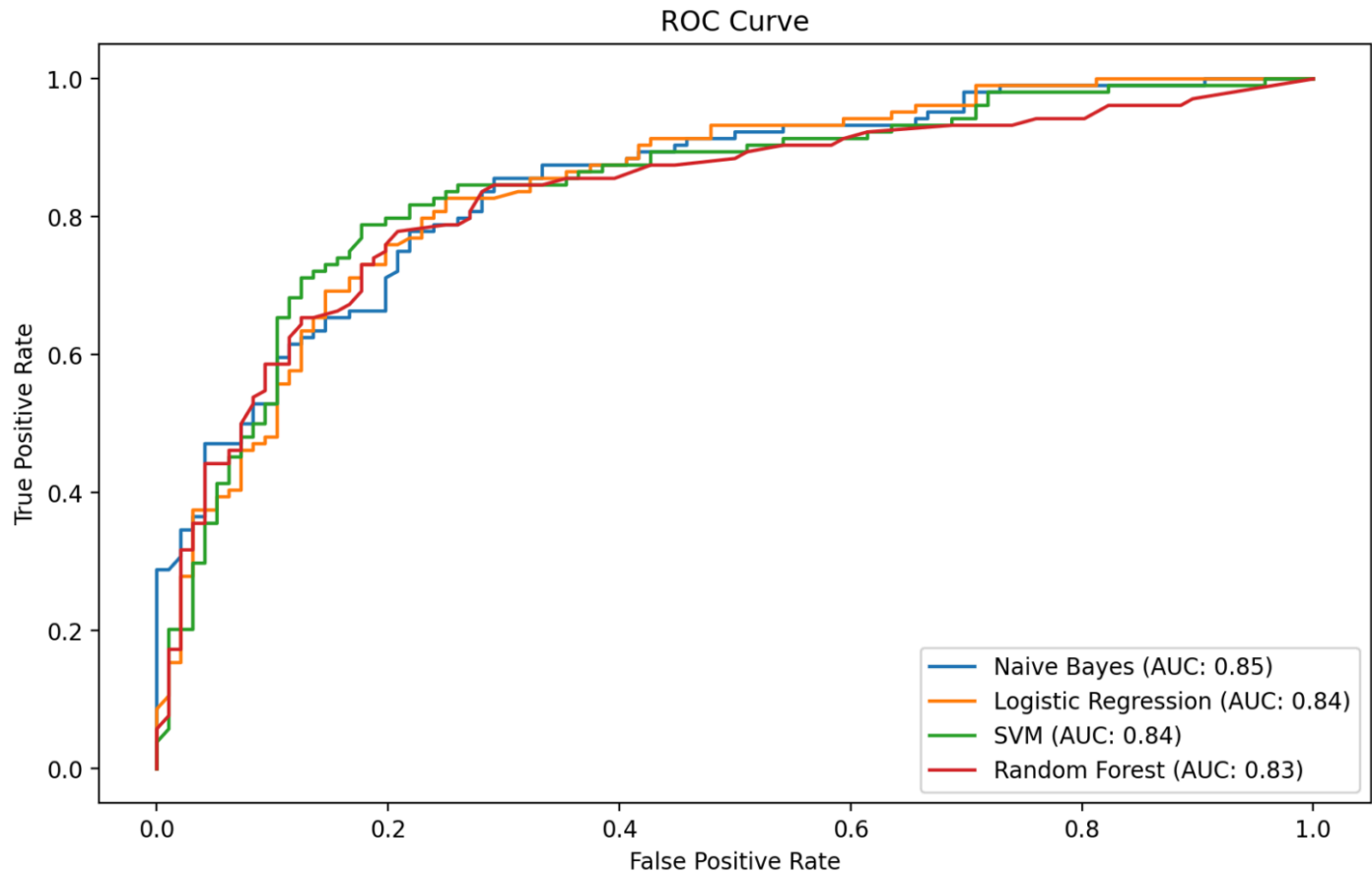


Model Comparison

	Model	Accuracy	CV Mean	Training Time (s)
0	Naive Bayes	0.775	0.77	0.007
1	Logistic Regression	0.755	0.7825	0.024
2	SVM	0.78	0.7813	2.8024
3	Random Forest	0.74	0.7537	0.6076



ROC Curve for Models



SHAP Summary Plot

