

Can You Predict Which Restaurants Will Survive?

You're the Data Consultant restaurants didn't know they needed!

Scenario:

A restaurant in Philadelphia just got a wave of negative Yelp reviews. The owner calls your team—desperate to know if their business is at risk of closing like so many others (especially in the post-COVID era, where dining has changed significantly).



Your Task?

Use real Yelp data and sentiment analysis to predict whether restaurants stay open or shut down. You'll harness Python, VADER (a sentiment analysis tool), and Decision Tree modeling to turn raw reviews into actionable insights.

The Catch:

Public opinion isn't always straightforward. Can you navigate messy data, biases, and tricky patterns to deliver a prediction that could save a business?



What You'll Produce:

- A working sentiment analysis pipeline.
- A predictive model for restaurant survival.
- A brief report explaining your findings to non-technical stakeholders.

Dive into the case study below to start - happy coding!

Get Started Here! <https://github.com/briseek/DS4002-Yelp-Sentiment-Analysis>