

AGENDA

Project Objective

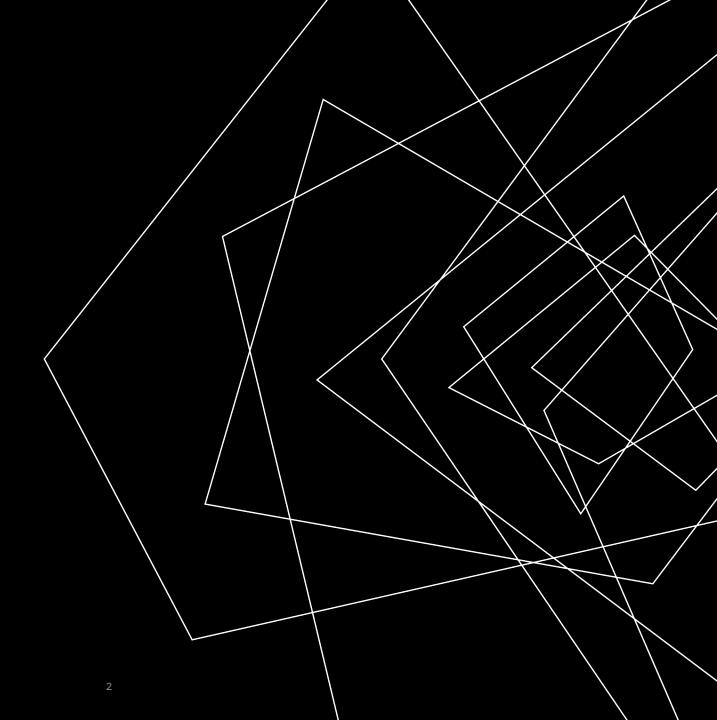
Data

The Big Picture

Modeling

Dashboard Preview

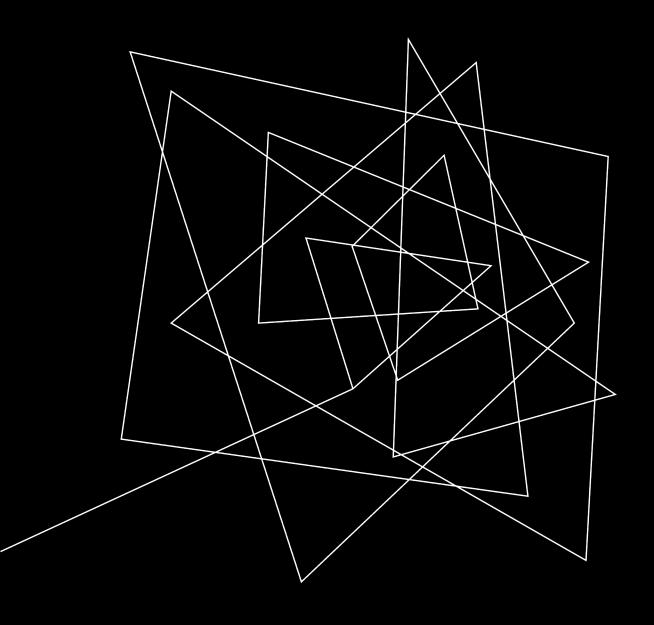
Conclusion and Next Steps



PROJECT OBJECTIVE

Given the massive layoffs in tech, I wanted to take a deeper look at the state of the industry to get a sense of what is really going on behind the scenes. This project analyzes the market both from a layoffs and jobs posting perspective, as well as predicts what the near future might look like for the industry.

State of the Tech Labor Market /

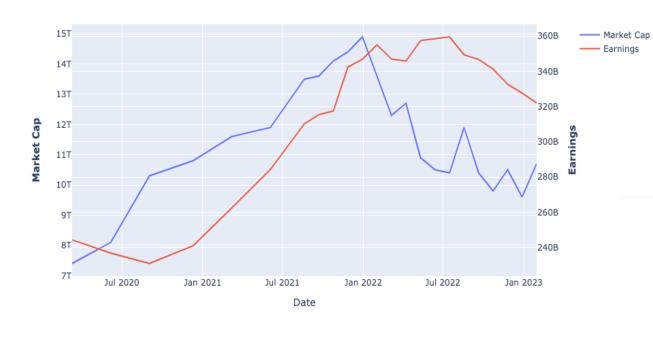


DATA

- Layoffs.fyi
- Census API
- Crunchbase
- US Bureau of Labor Statistics
- Simply WallStreet
- Indeed / Lightcast
- Kaggle
- Yahoo Finance

THE BIG PICTURE

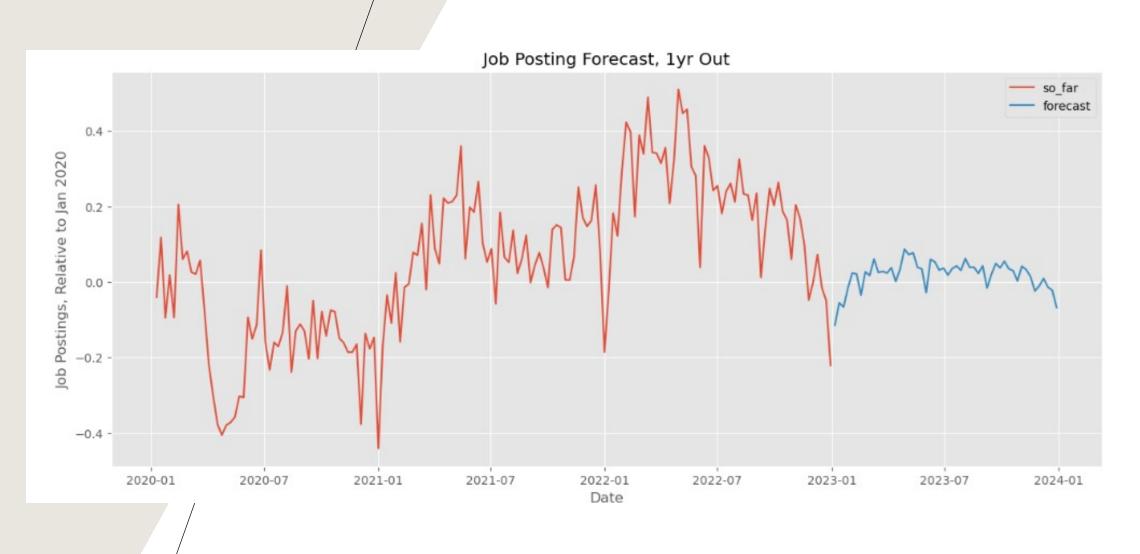
Tech Sector Market Cap & Earnings



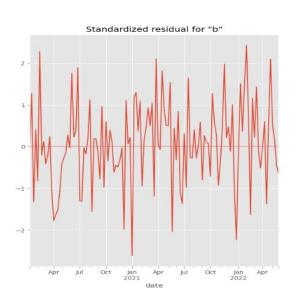
Layoffs and Job Postings

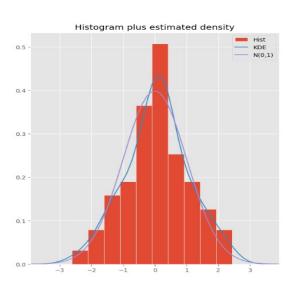


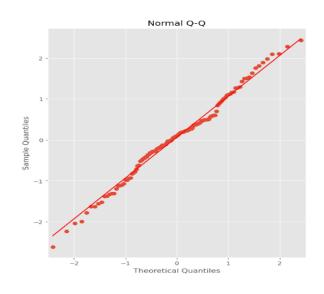
TIME SERIES MODEL - JOB POSTINGS

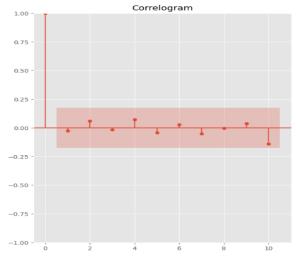


TIME SERIES MODEL - EVALUATION

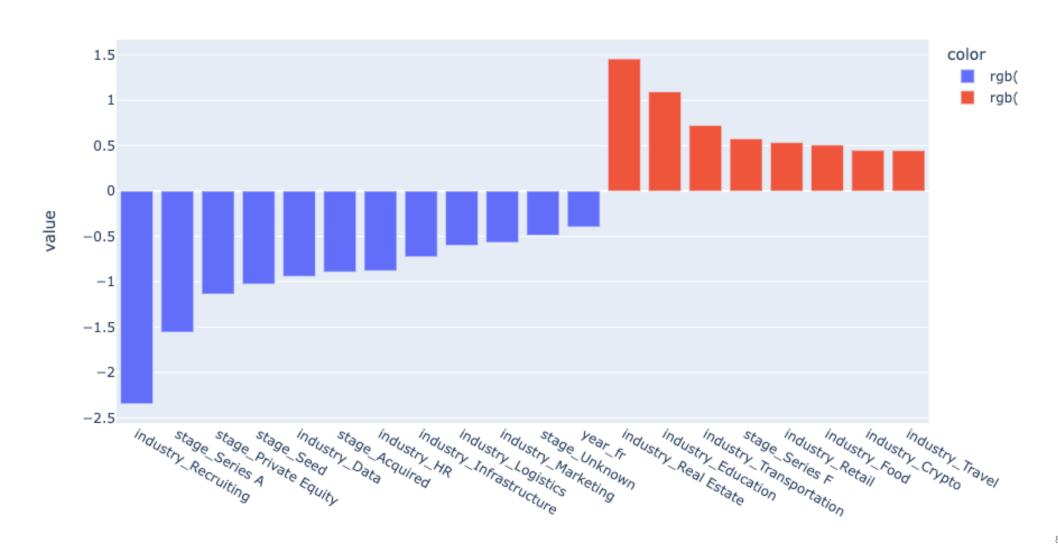




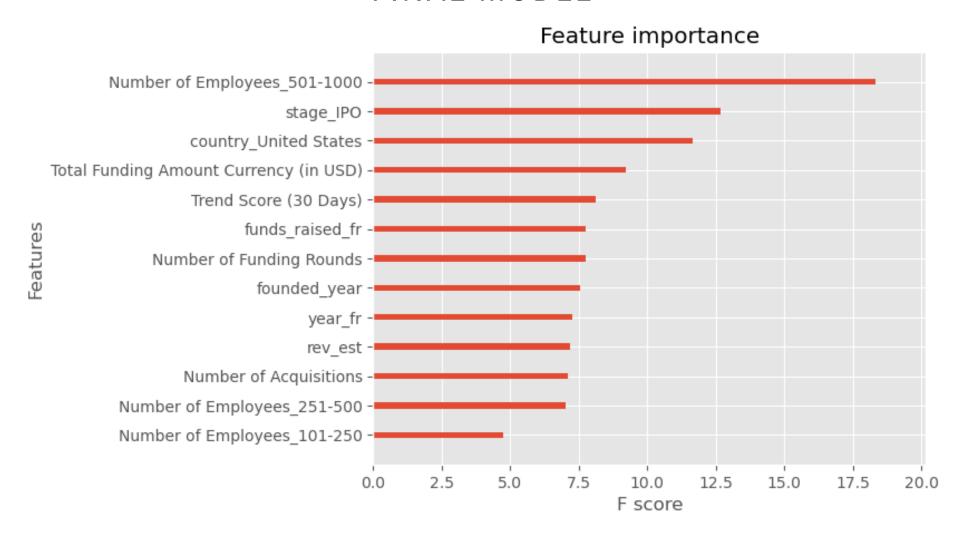




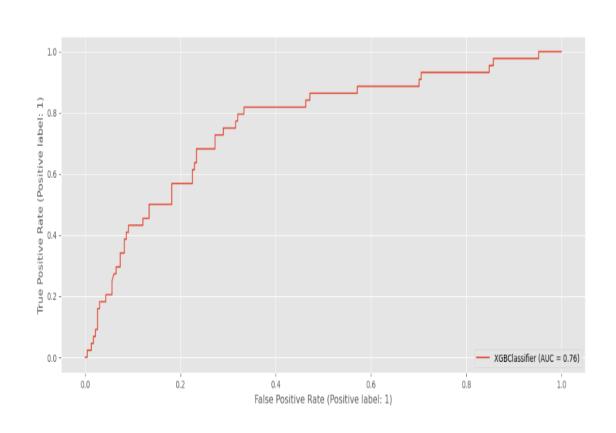
LAYOFF FREQUENCY PREDICTION – FEATURE IMPORTANCE LOGISTIC REGRESSION COEFFICIENTS

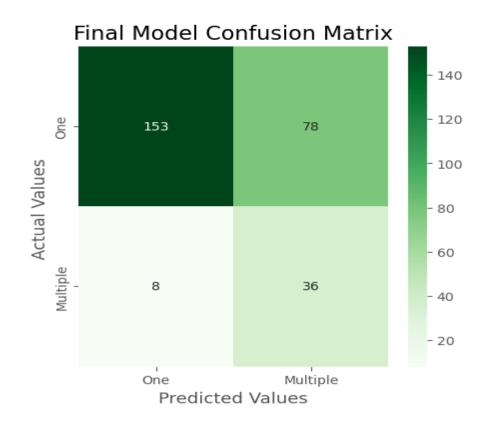


LAYOFF FREQUENCY PREDICTION – FEATURE IMPORTANCE FINAL MODEL



LAYOFF FREQUENCY PREDICTION - MODEL EVAL





State of the Tech Labor Market

Economic Conditions

Tech Layoffs Dashboard

Job Postings

Given the massive recent layoffs in the tech sector, I thought it would be helpful to take a deeper look at the state of the tech market to get a sense of what is really going on behind the scenes -- and to see whether there is hope for any of us out there who are looking for a job.

This dashboard is split into three sections - the first will give a general sense of economic conditions in the sector and more generally, the second will take a closer look at recent layoffs and predict whether companies will experience multiple rounds or just a one off, and the third will focus on job postings.



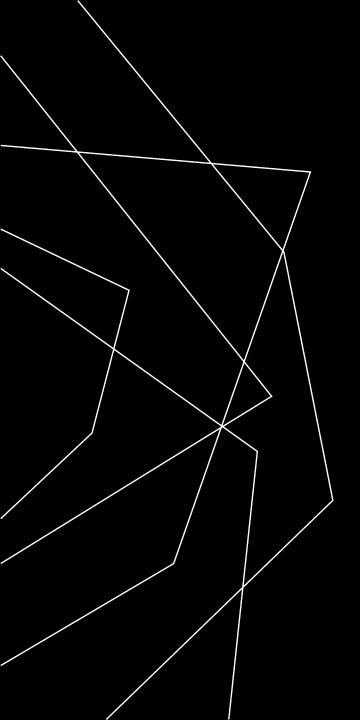


DASHBOARD PREVIEW

11

CONCLUSION AND NEXT STEPS

- THERE IS HOPE. Job postings should remain stable for the next year, meaning there are opportunities for laid off employees
- Larger companies tend to see more rounds of layoffs be proactive if you are an employee at one of these firms
- Next steps: gather more company data to feed into classification model, gather data as far as specific roles laid off & posted to match laid off employees with job postings that may fit their background



THANK YOU

Natalya Doris

ntdoris2@gmail.com

https://github.com/ntdoris/