

Abstract geometric lines in the top-left corner of the slide, consisting of several thin, black, overlapping lines that form a complex, non-representational shape.

STATE OF THE TECH LABOR MARKET

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AGENDA

Project Objective

Data

The Big Picture

Modeling

Dashboard Preview

Conclusion and Next Steps

PROJECT OBJECTIVE

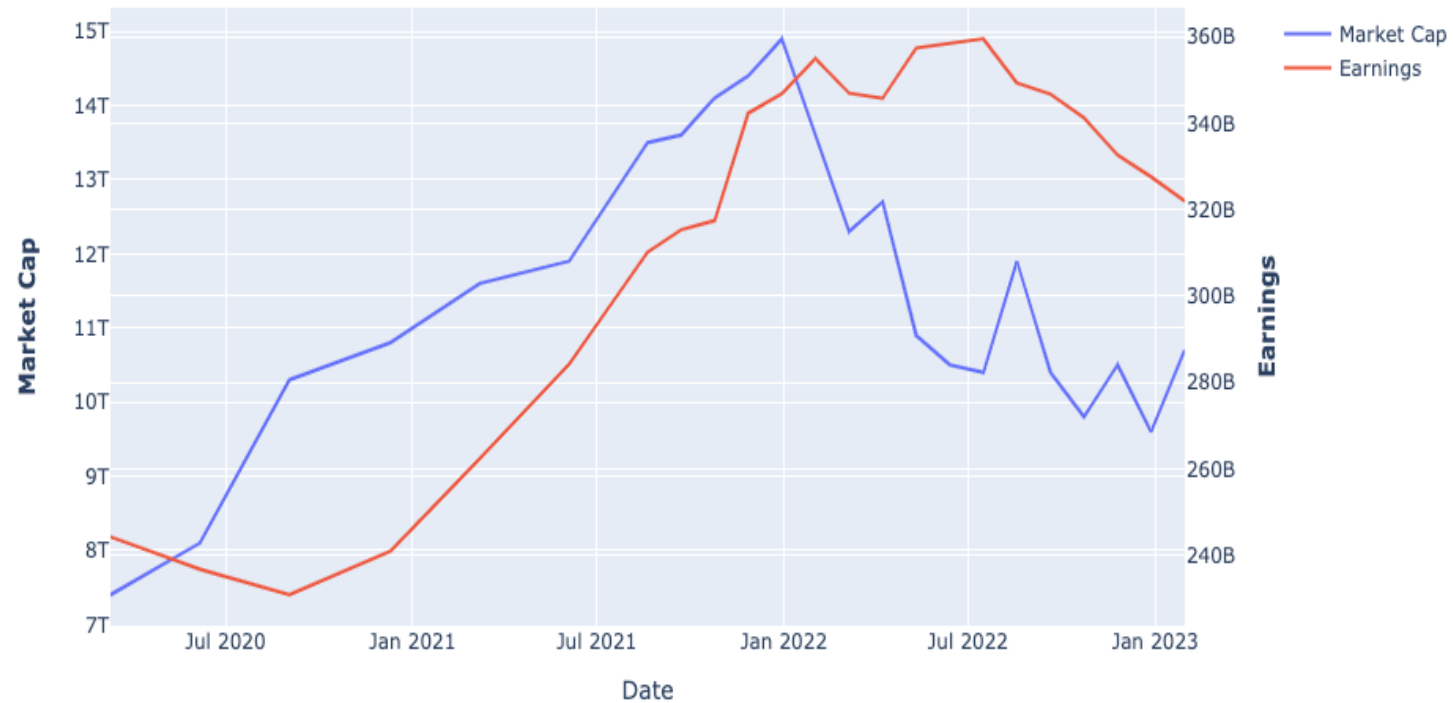
Given the massive layoffs in tech, I wanted to take a deeper look at the state of the industry to get a sense of what is really going on behind the scenes. This project analyzes the market both from a layoffs and jobs posting perspective, as well as predicts what the near future might look like for the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



DATA

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

Tech Sector Market Cap & Earnings



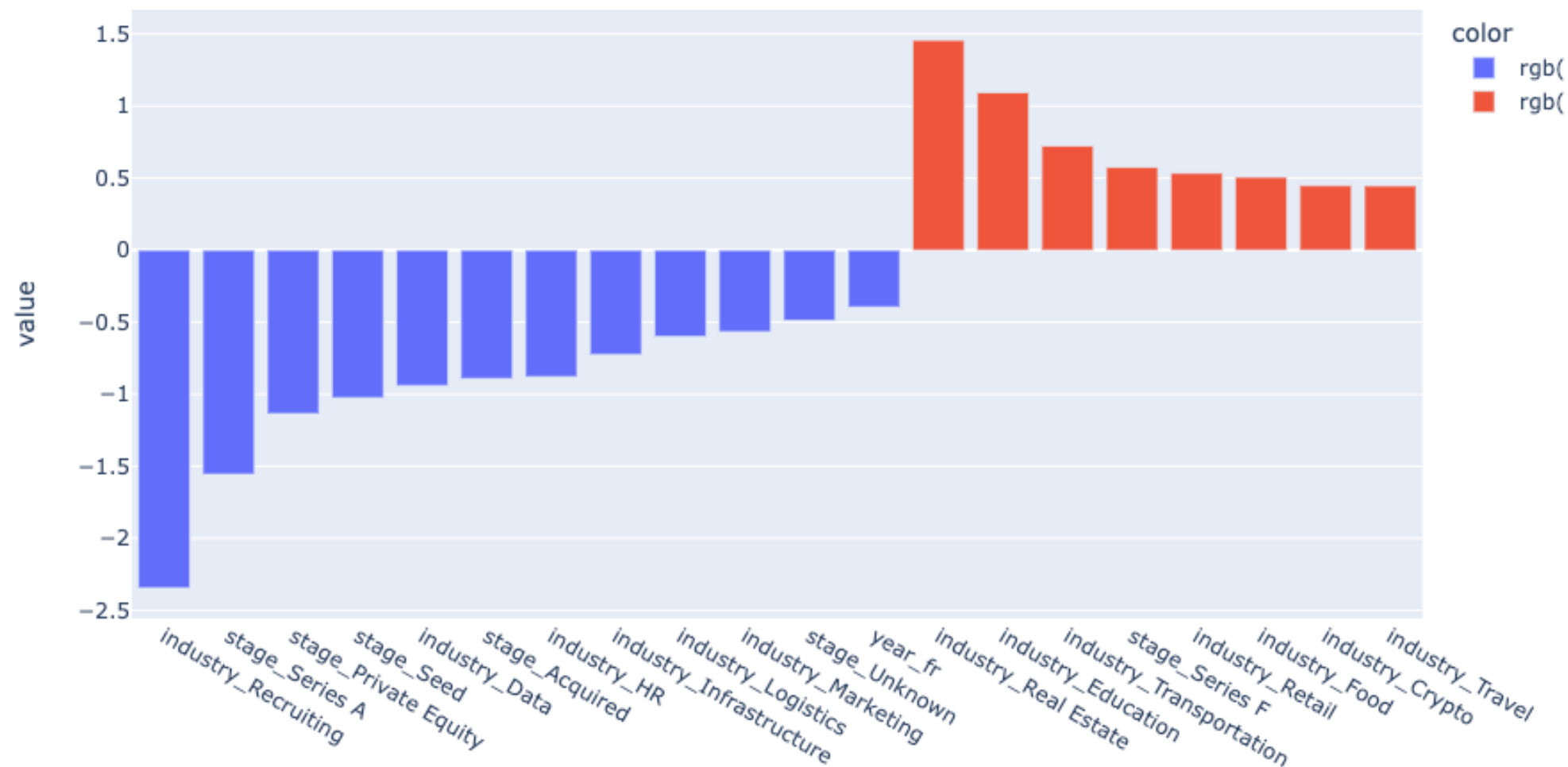
THE BIG
PICTURE

TIME SERIES MODEL – JOB POSTINGS



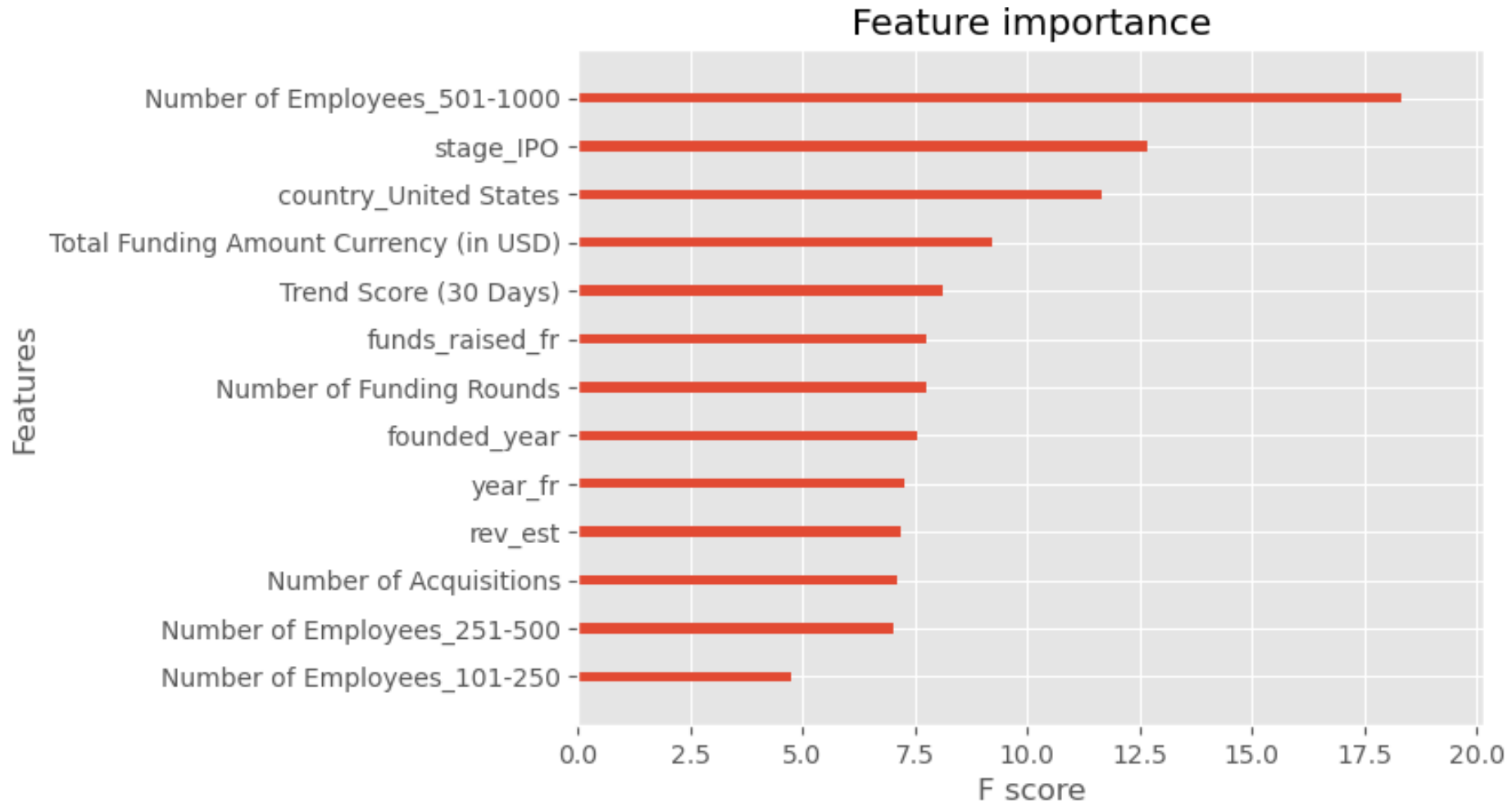
LAYOFF FREQUENCY PREDICTION – FEATURE IMPORTANCE

LOGISTIC REGRESSION COEFFICIENTS

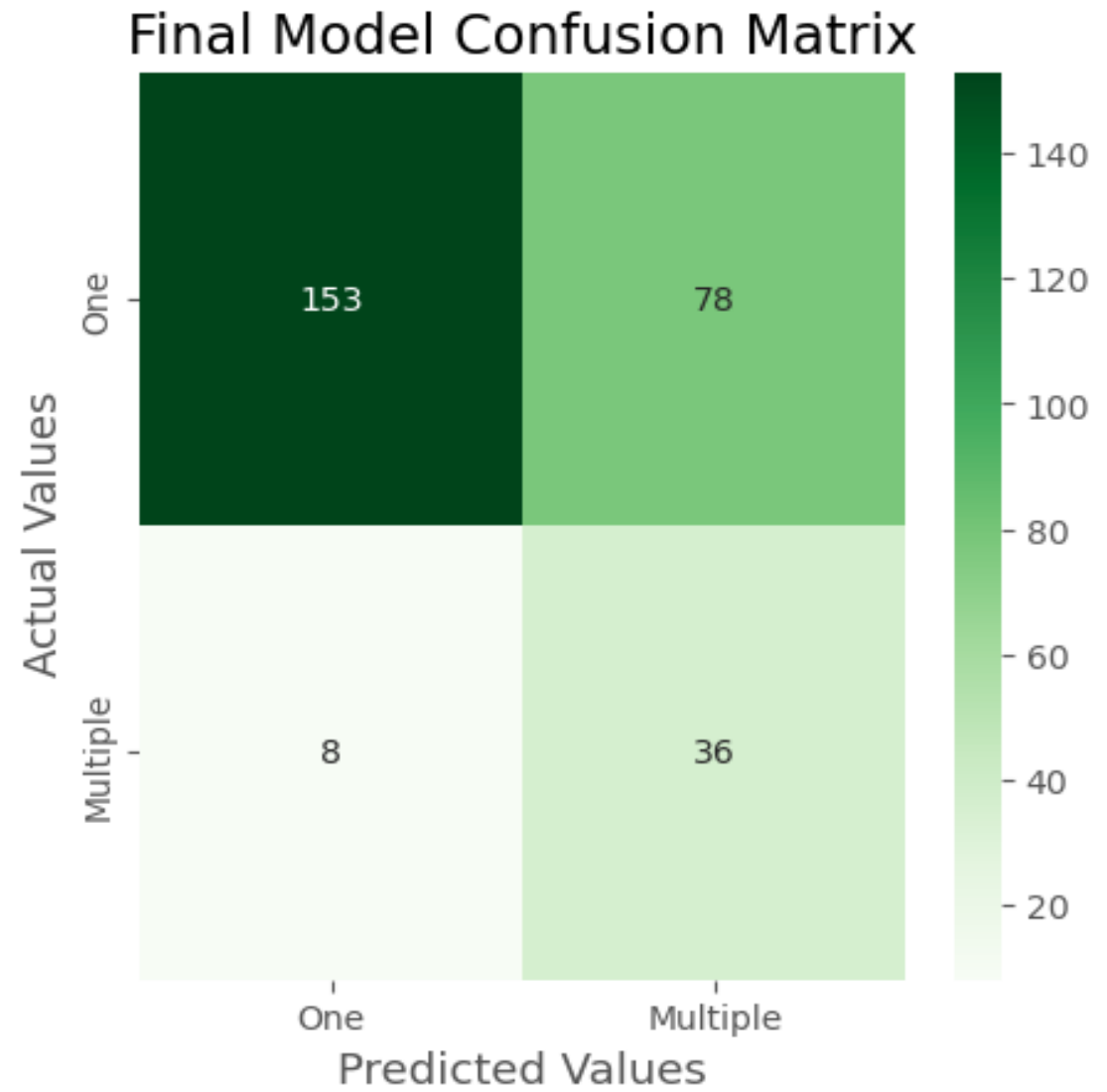


LAYOFF FREQUENCY PREDICTION – FEATURE IMPORTANCE

FINAL MODEL



LAYOFF MODEL EVALUATION



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



CONCLUSION AND NEXT STEPS

- THERE IS HOPE
- If you're at a large company, be proactive
- Next steps:
 - Gather more company data
 - Gather data on specific roles laid off & posted
 - Map postings to layoff in dashboard



THANK YOU

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