SARS-CoV-2 Pandemic & Post-Pandemic Layoffs
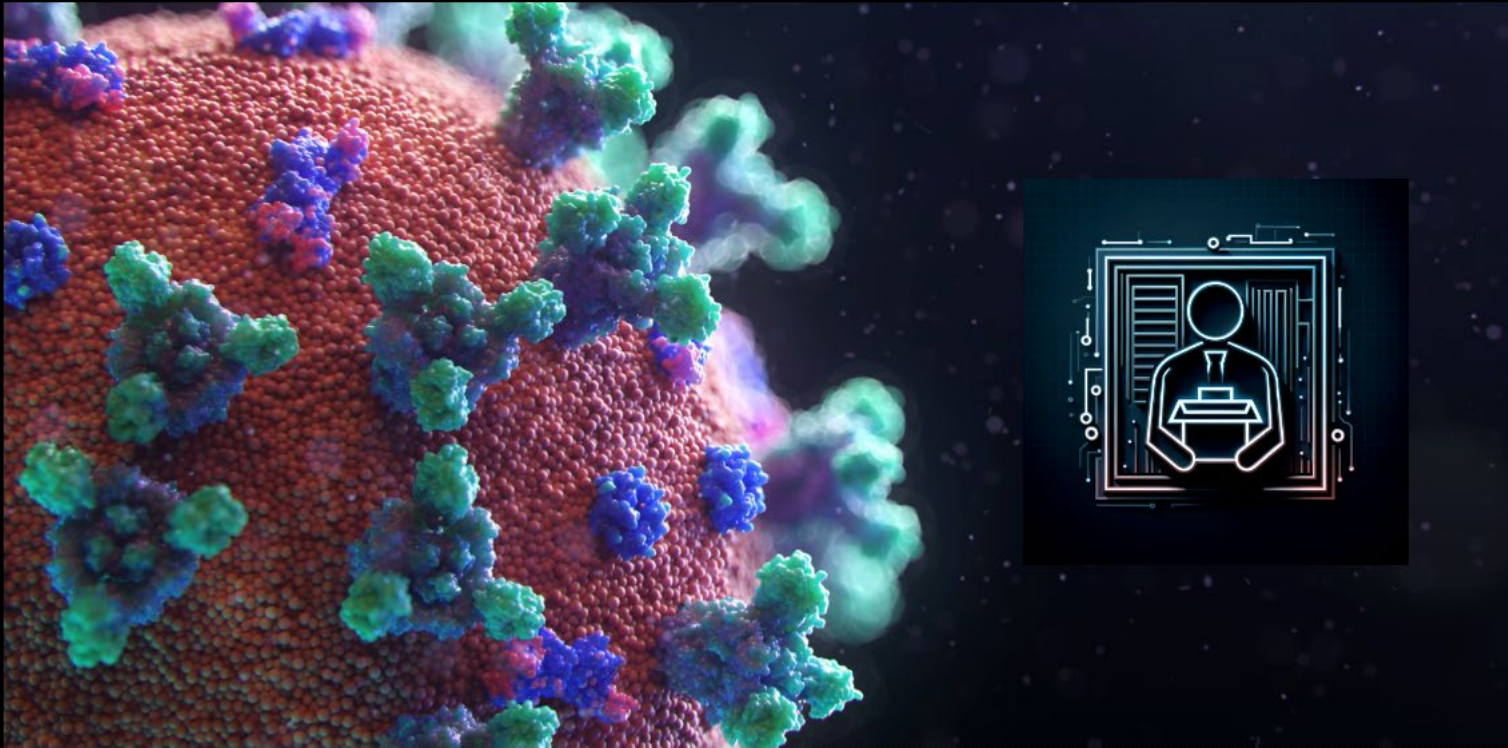
Lets inform decision-making in the post-pandemic world!

Objective

Understand the impact of COVID-19 on workforce dynamics, focusing on layoffs within the tech industry.

Data Sources

Layoffs 2022: Overview of global layoffs.

Top 50 US Tech Companies 2022 - 2023: Snapshot of leading tech companies.

Tech Migrations: Insights into tech professionals' movement.

Analysis Outline

General Overview: Highlighting most affected sectors and companies.
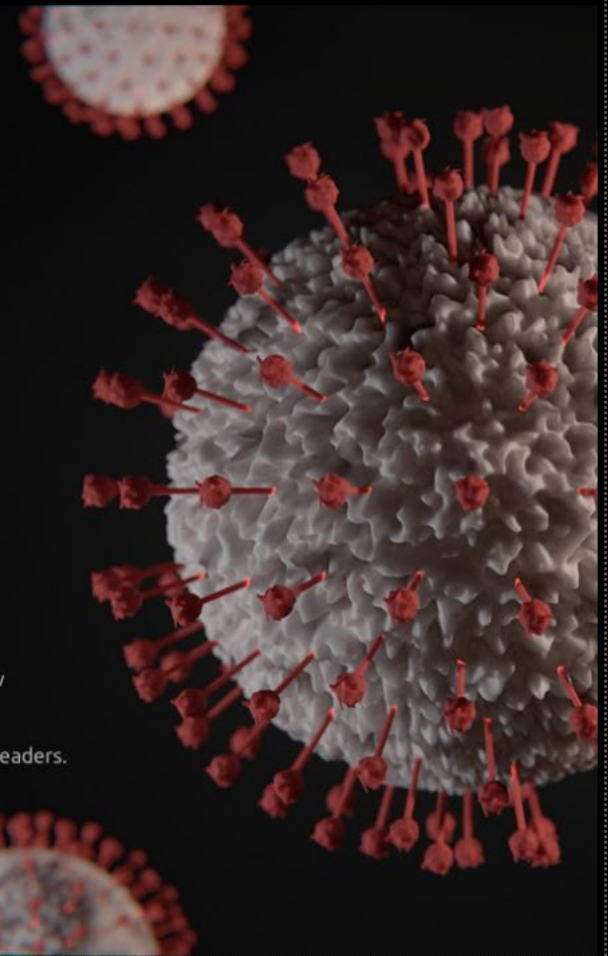
Comprehensive Analysis: Exploring correlations and potential reasons.

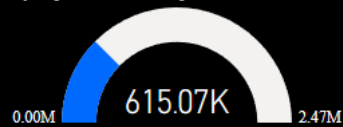## Target Audience

Professionals looking for new opportunities, HR

Professionals, and Business Leaders.

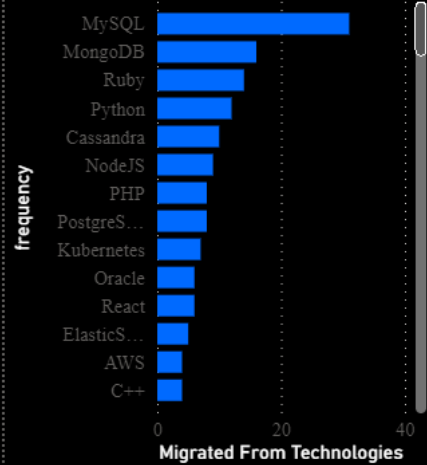# Layoffs General Analysis

Relative Employee Efficiency

0.00M — 615.07K — 2.47M

Reset Interactions

Top 50 Companies Total Annual Income

69bn
Annual Income

Migrated From Technologies by frequency

Migrated From Technologies	frequency
MySQL	
MongoDB	
Ruby	
Python	
Cassandra	
NodeJS	
PHP	
PostgreS...	
Kubernetes	
Oracle	
React	
ElasticS...	
AWS	
C++	

(x-axis: 0 to 40)

Top 50 Stats Companies Location

Microsoft Bing — © 2024 Microsoft Corporation Terms

Migrated To Technologies by frequency

Migrated To Technologies	frequency
Golang	
TiDB	
SingleStore	
PostgreS...	
Clickhouse	
ScyllaDB	
Yugabyt...	
Rust	
Victoria...	
Cockroa...	
Couchbase	
Dart	
Elixir	
NodeJS	
Svelte	

(x-axis: 0 to 50)
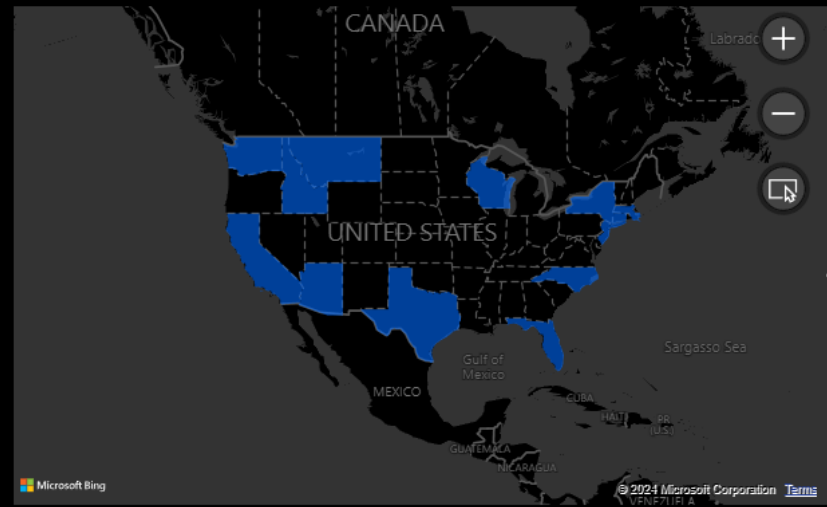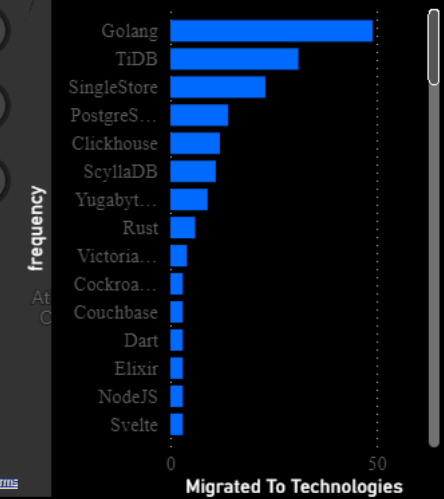
Layoffs Comparative Analysis

Select a Year Plot #1
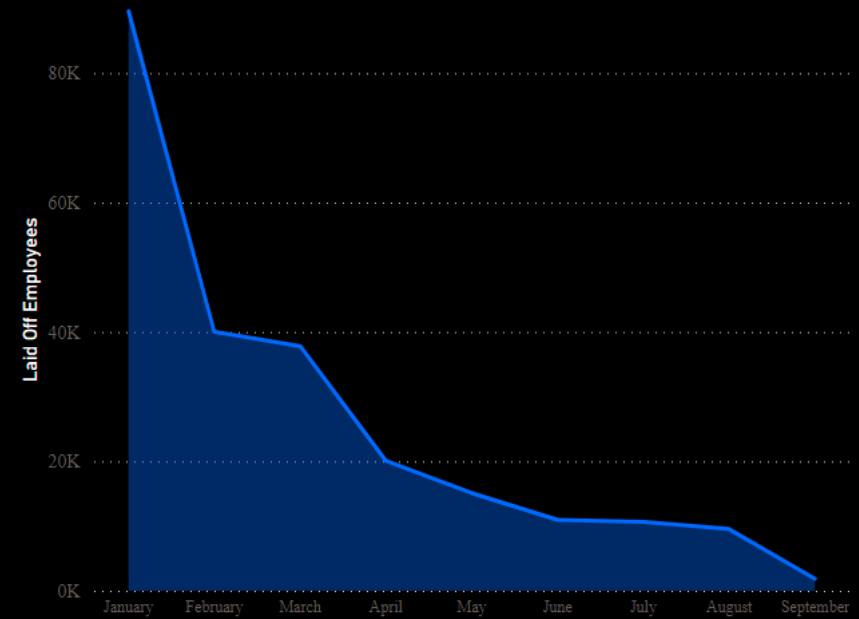
2020 | 2021 | 2022 | 2023

Reset Interactions

Select a Year Plot #2

2020 | 2021 | 2022 | 2023

Time Series Laid Off People (Comparative Plot #1)
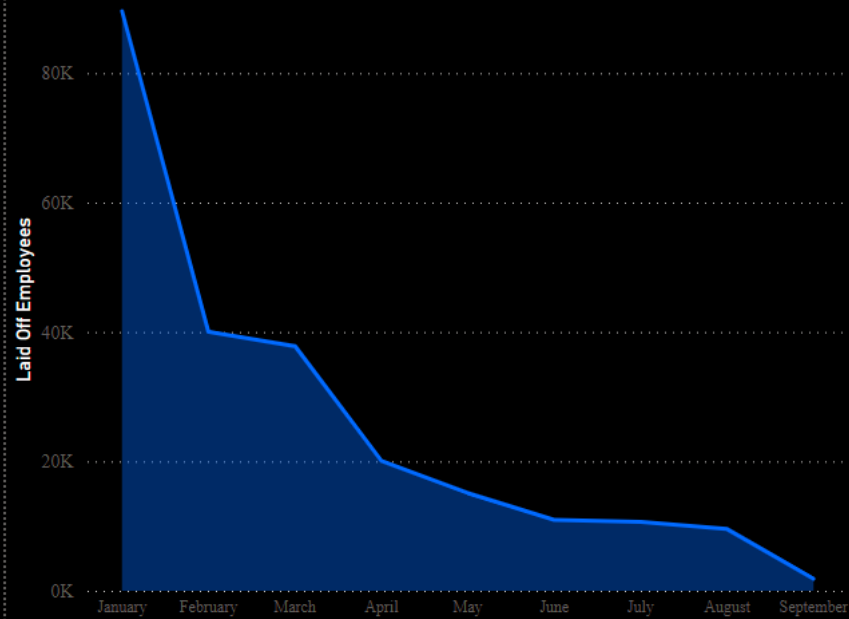
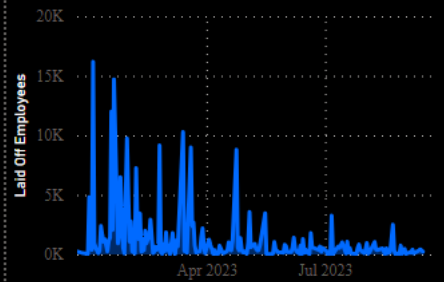**Time Series Laid Off People (Comparative Plot #2)**

LAYOFFS DESCRIPTIVE ANALYSIS

Layoffs by Month 2022-2023
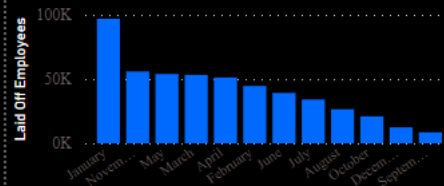
Time Series Laid Off People in 2023

Layoffs by Industry Sector

497K
Laid Off Employees

2298
Companies That Layoff

Reset Interactions

Amount of Layoffs Per Region

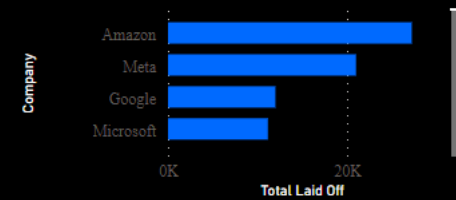© 2024 Microsoft Corporation   Terms
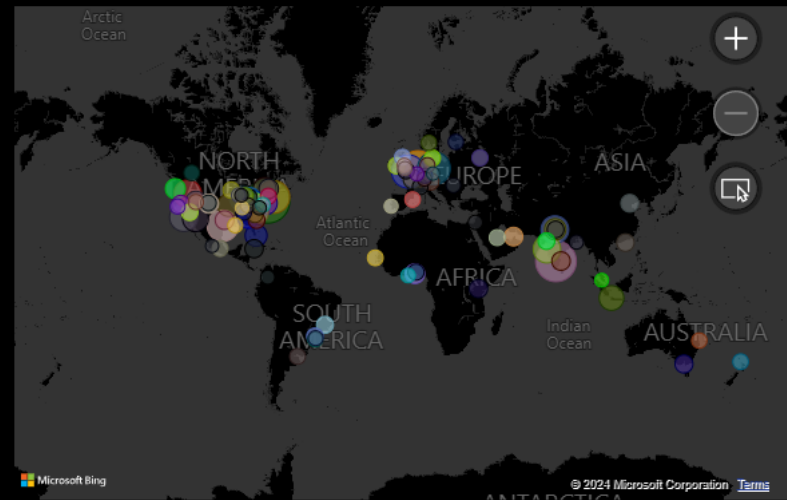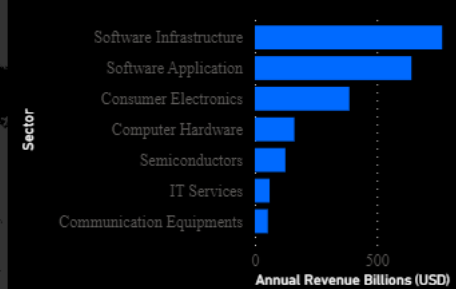
26.95
Average Laid Off Workforce [%]

244.82
Average Layoffs Per Company

Total Laid Off by Company

Revenue 2022-2023 Top Sectors

Revenue 2022-2023 Top Stats Companies
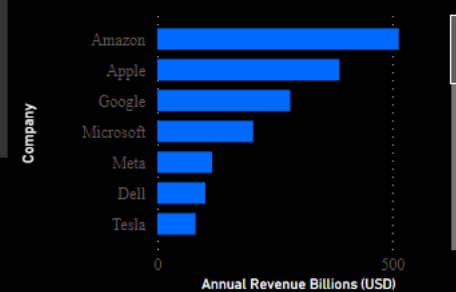
Conclusions

✓ January is the month with more incidence in layoffs during the pandemic and post-pandemic period.

✓ Layoffs frequency intensified during the last midterm of 2022 and the beginning of 2023, as the sanitary emergency stabilized.

✓ Retail, Consumer, Transportation, and Food industry sectors present the highest number of laid off professionals.

✓ Some of the most relevant technological transfers occurred during the last three years

✓ Relative Employee Efficiency is presumably on the lower side.

✓ Amazon is the company with the highest accumulated revenue

✓ between 2022-2023, however along with Meta and Google, it is among the top 3 companies in employees cuts during the pandemic and post-pandemic period.

Future Work:
Analysis of geopolitical factors over employee cuts, and time series autoregressive models of layoffs, should be considered for future work.

END

Thank you

José Eduardo Zárate Aranda
Late 2023

Lets inform decision-making
in the post-pandemic world!