



GROUP I

# Layoff Analysis

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# Introduction



- 1 Exploring workforce reductions
- 2 Evaluating the raised Funds after layoffs
- 3 Analyze the effectiveness of the organization's decision-making
- 4 Analyze workforce trends

# Data Overview

Insights into the Data Fields

**Company**

**Industry**

**Stage**

**Location**

**Laid off count**

**Funds raised**

**Other fields**



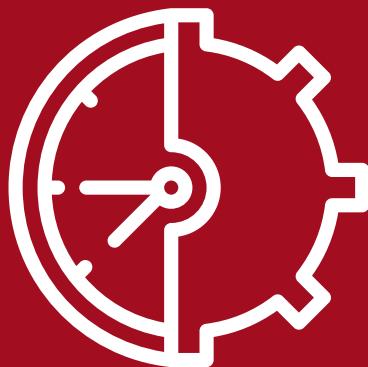
# Understanding Workforce Dynamics



Financial Challenges



Restructuring



Technological Changes



Outsourcing



Market Conditions



Mergers and Acquisitions



# Data Cleaning & Data Visualisations

- ▶ Treating Missing Values and Outliers
- ▶ Exploratory Data Analysis

## Missing Value Imputation

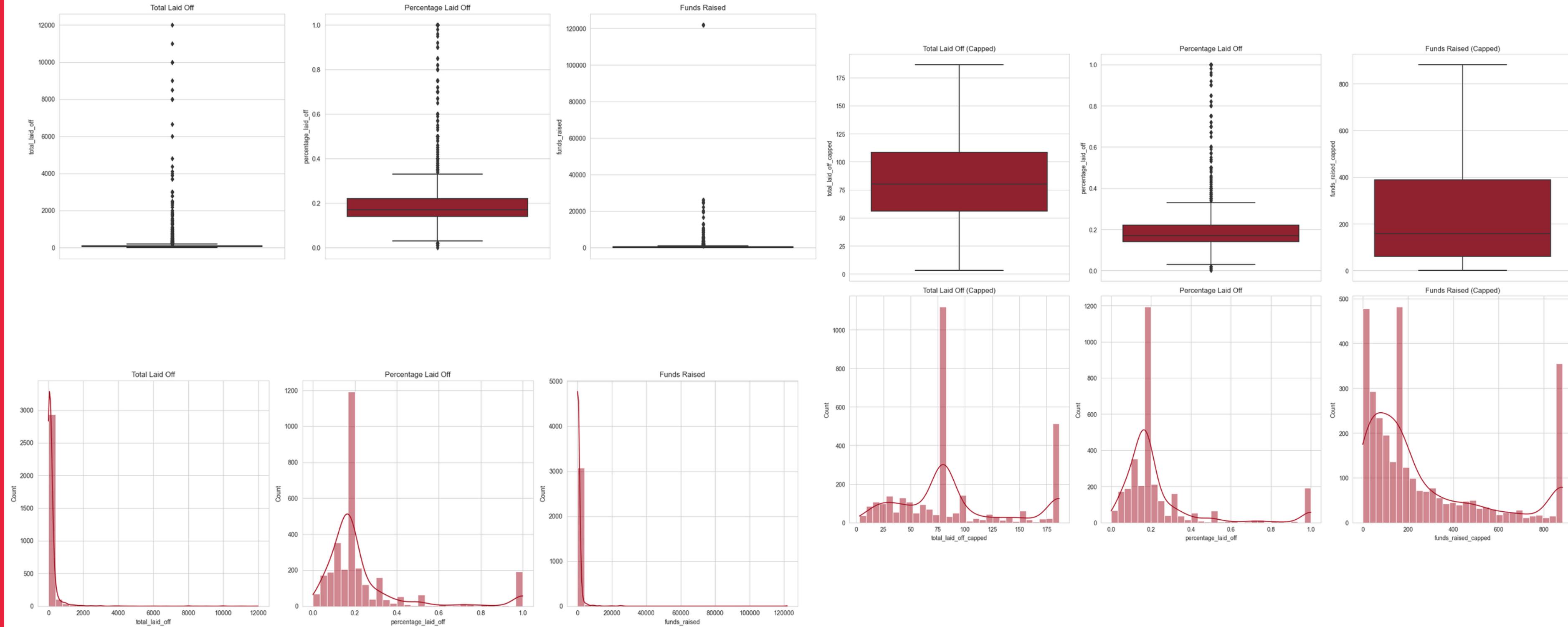
- Total Laid Off, Percentage Laid Off, and Funds Raised were observed to have null values
- The graphs were rightly skewed so the missing values were imputed with median values.
- The dataset now has no missing values in any column.

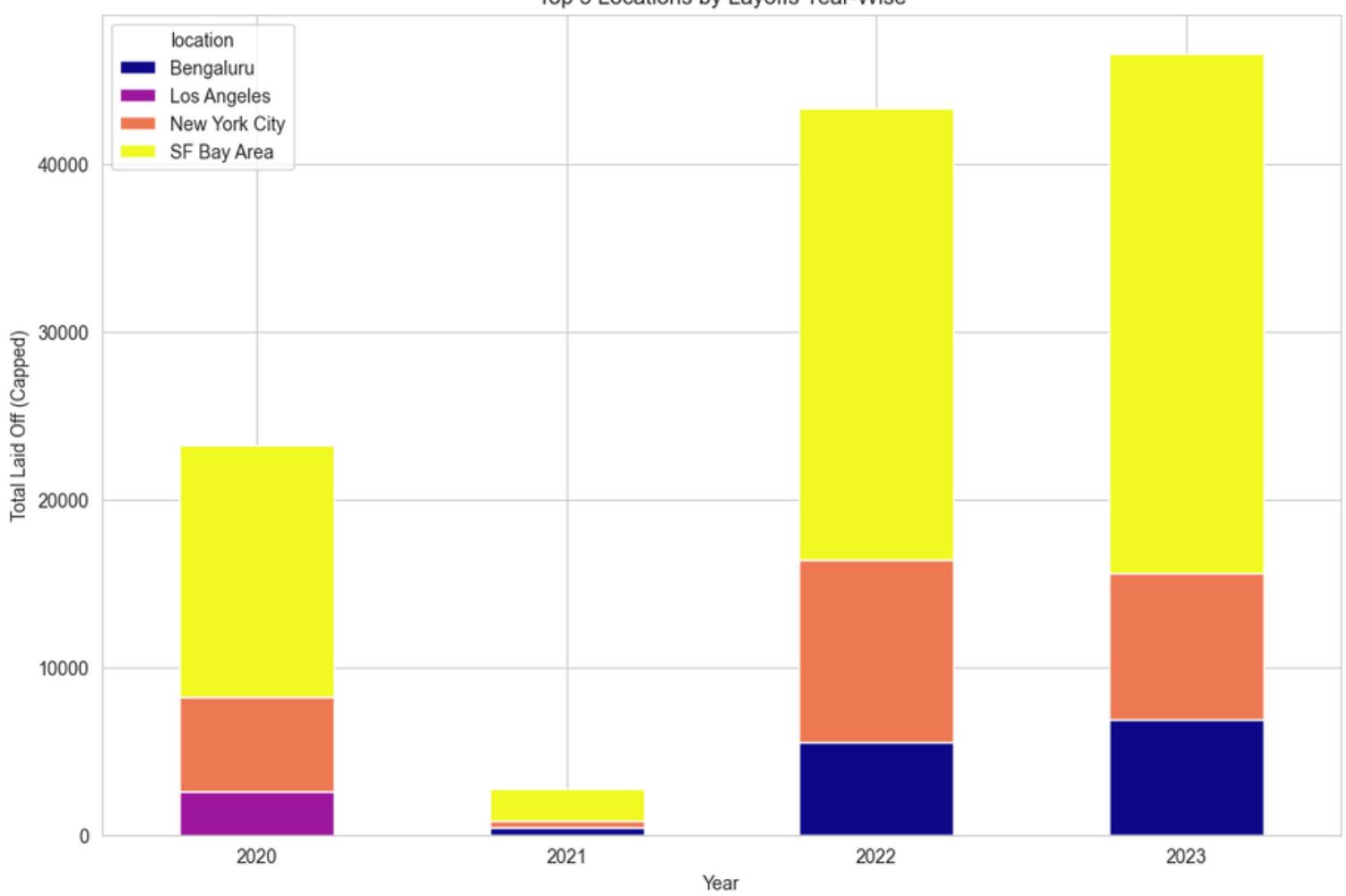
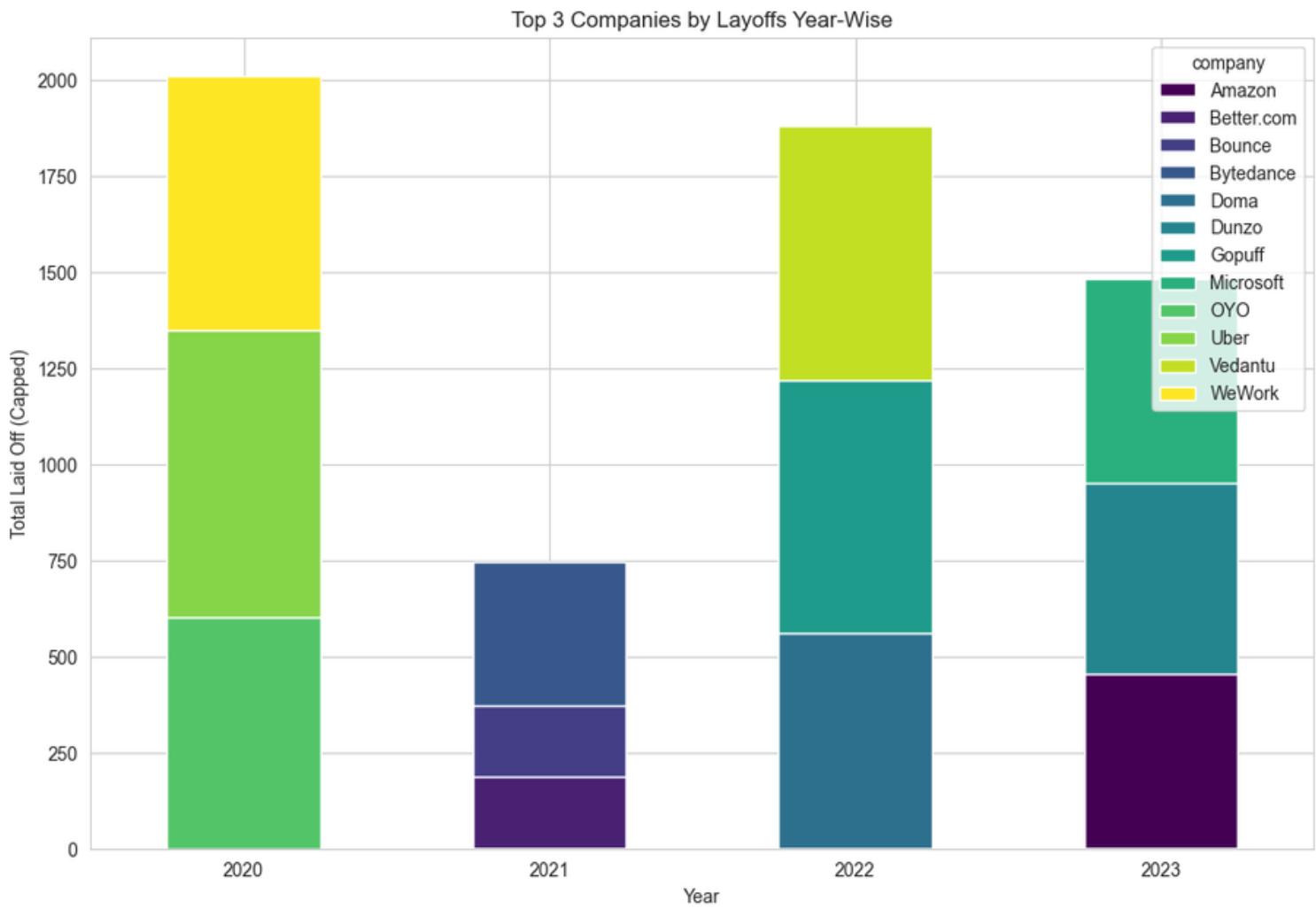
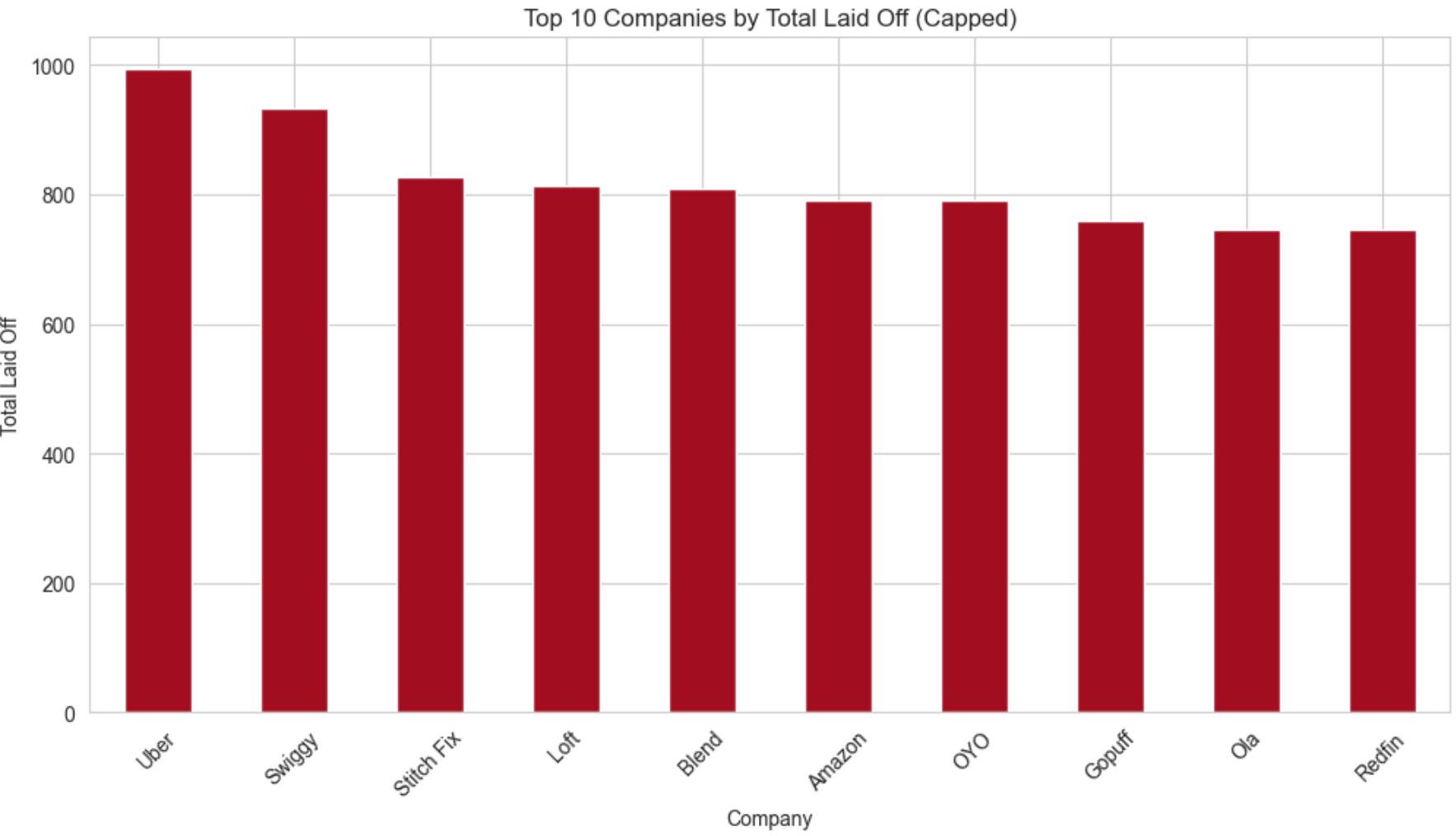
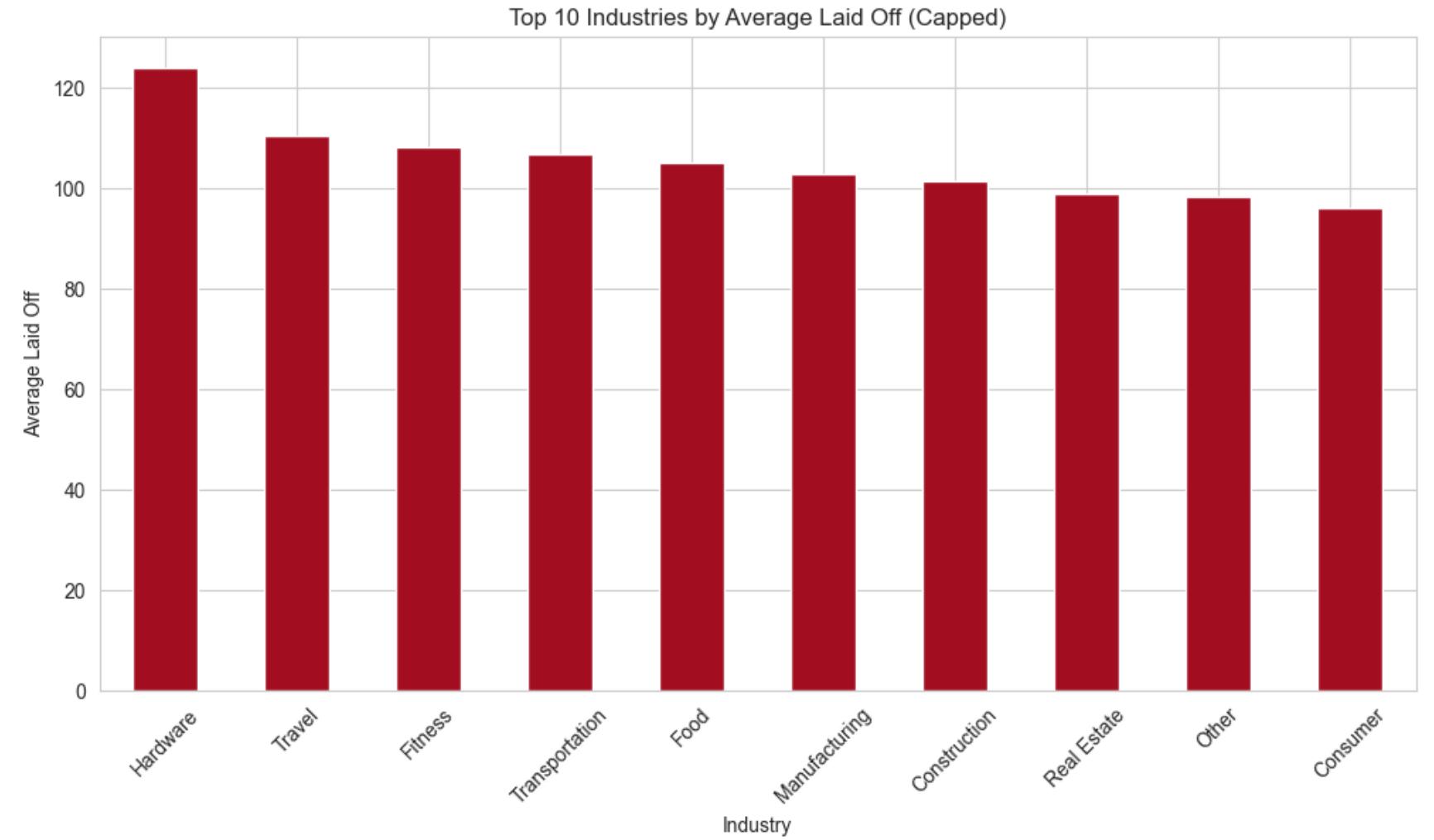
```
company          0  
location         1  
industry         1  
total_laid_off  1045  
percentage_laid_off 1104  
date             0  
stage             7  
country           0  
funds_raised     328  
dtype: int64
```

```
(company          0  
location         0  
industry         0  
total_laid_off  0  
percentage_laid_off 0  
date             0  
stage             0  
country           0  
funds_raised     0  
dtype: int64,
```

# Before Outliers

# After Outliers

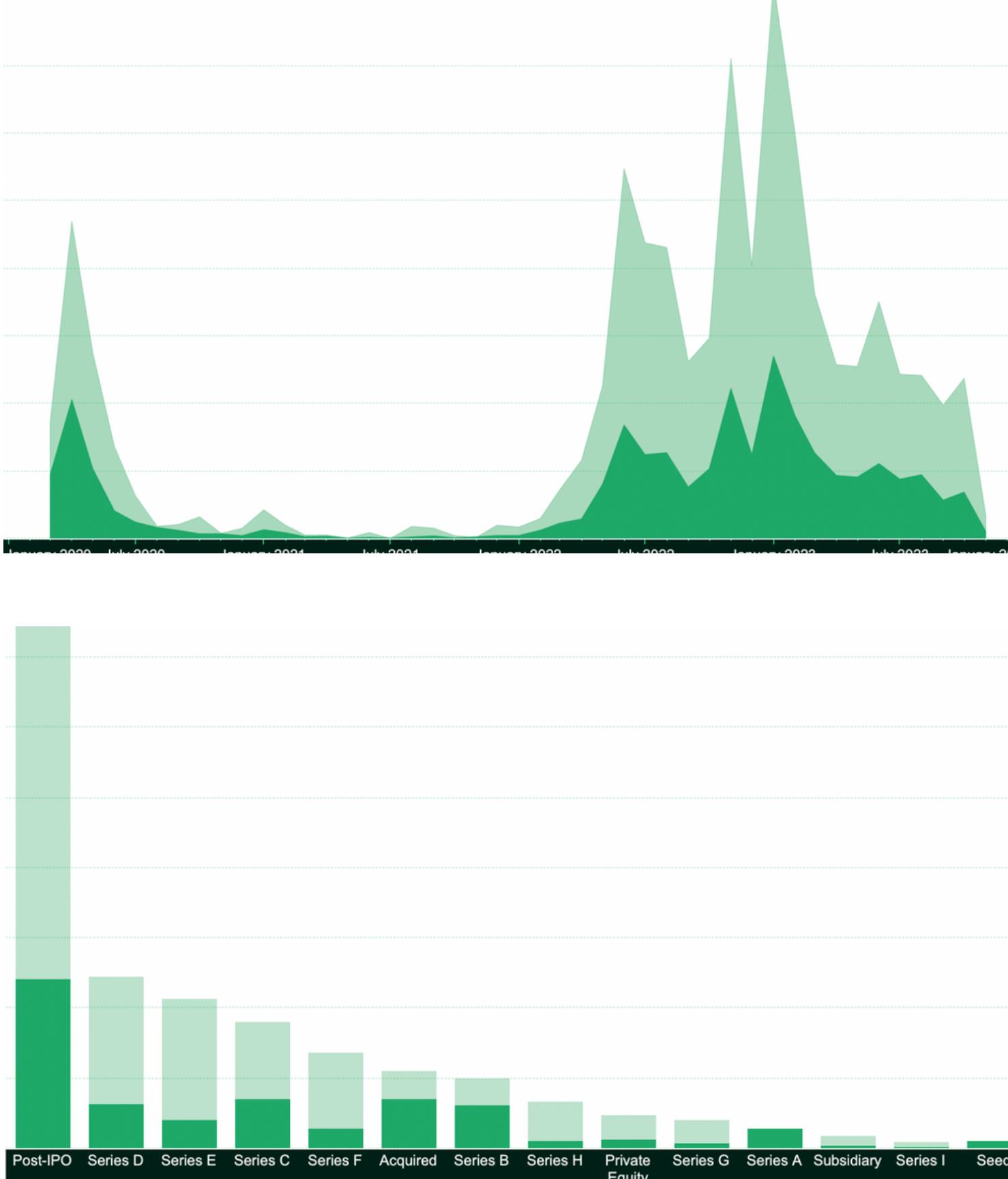




# Key Findings

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1. Higher funding in advanced stages may coincide with workforce reductions, indicating strategic restructuring or optimization for efficiency and investment attractiveness.



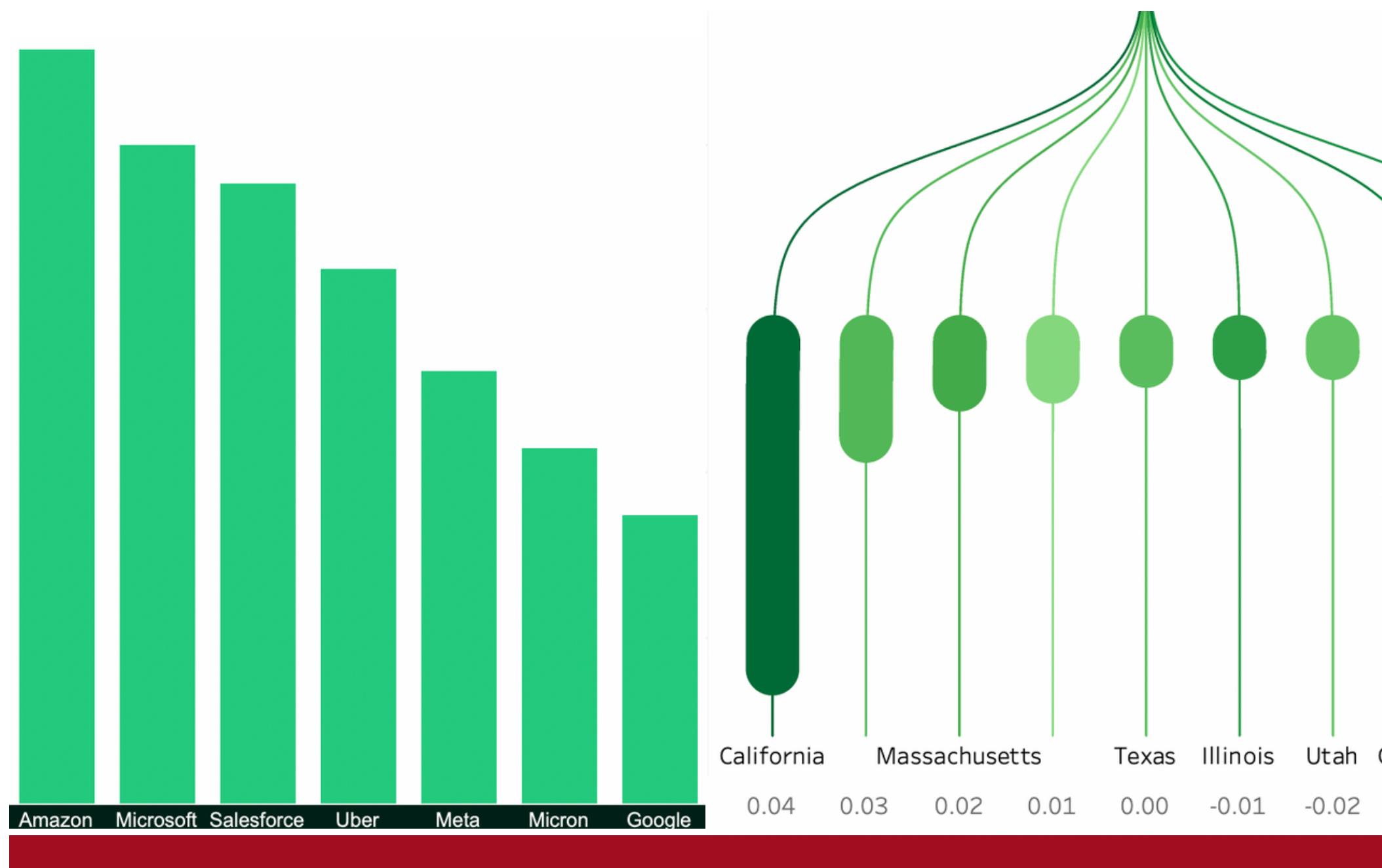
# Key Findings

## 2. Funds raised per layoff: \$15.78K

- Investment Despite Layoffs
- High-Value Layoffs



# Key Findings



## 3. Top Total Layoffs:

- Country: United States
- State: California
- Company: Amazon

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Thank you!