

Tech Layoff Data Set

By Dylan Hahn

The Problem

Methodology

Findings/
Insights

Proposal

Future
Work

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The Problem

For my data science research project, I chose a data set that contains information surrounding layoffs in the tech sector.

In 2022, the U.S. has seen the biggest tech companies layoff thousands of employees one after the other.

Ex: Meta, Amazon, Netflix, etc.

Why is this happening and who are all of those people?

How can we better explain the data to those affected to find new jobs?



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Breaking the Problem Down

- ➔ Step 1: Analyze a Large data set using python
- ➔ Step 2: Learn how Pandas works with the dataset & on top of Python
- ➔ Step 3: Clean data by dropping columns and null values
- ➔ Step 4: Correlate data and explain it to it's users



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Methdology

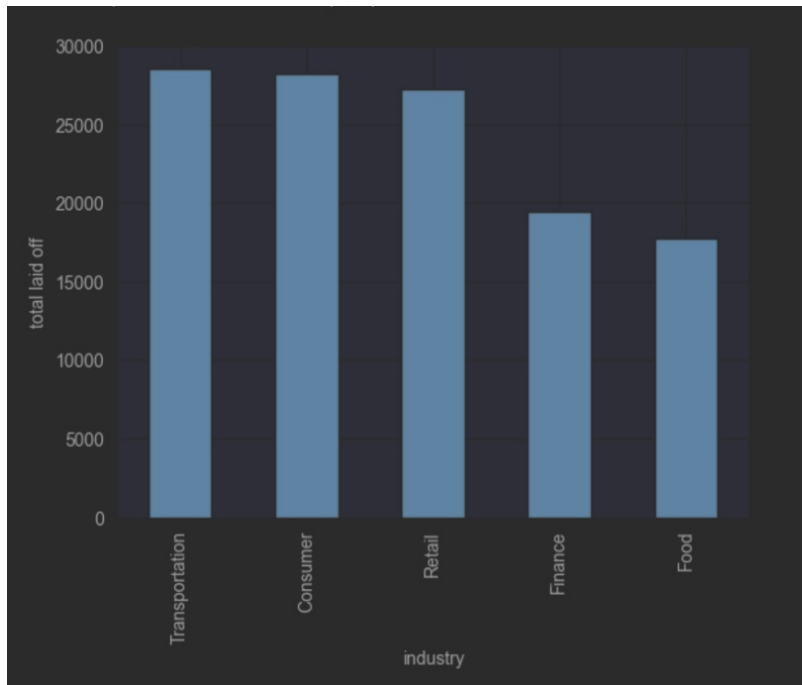
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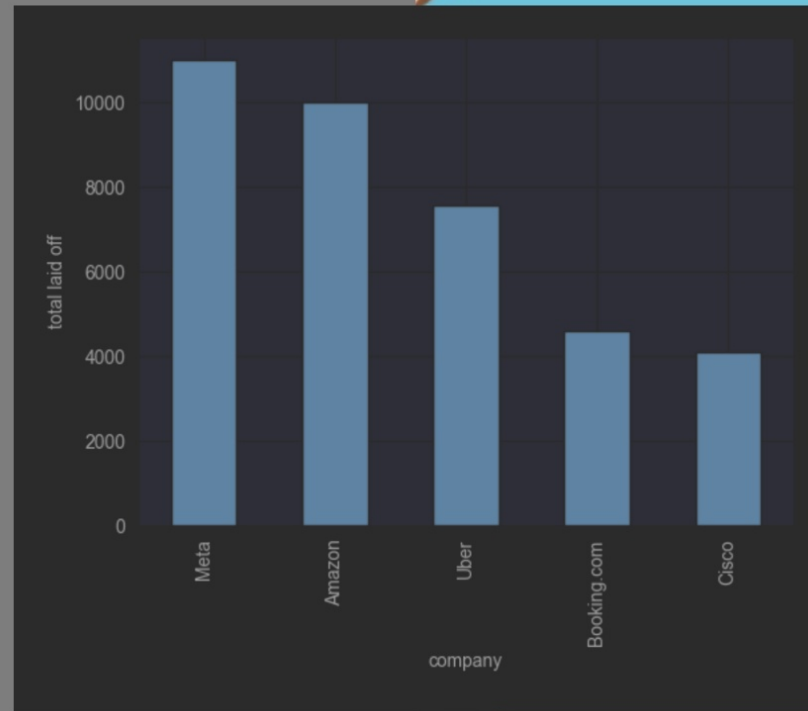
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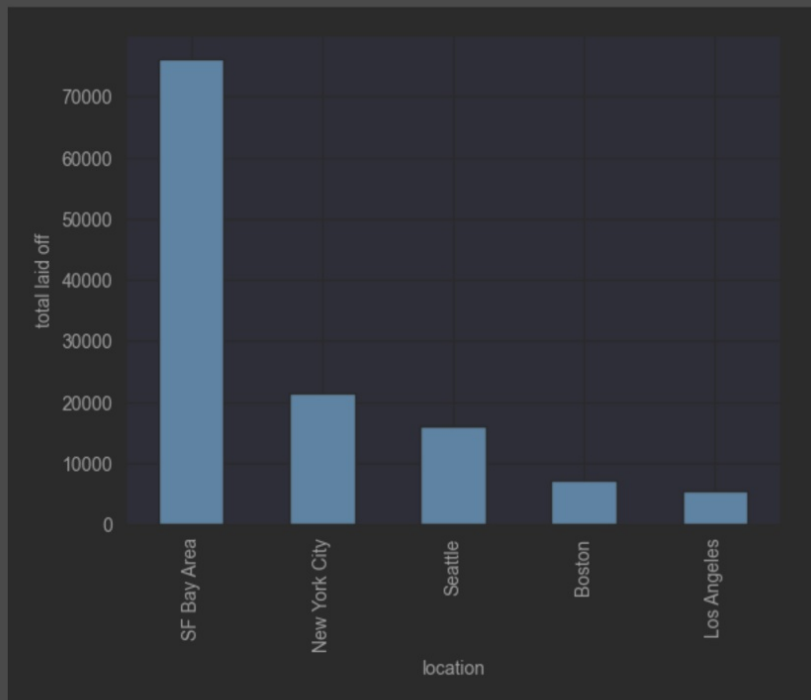


Industries that laid off the greatest number of employees

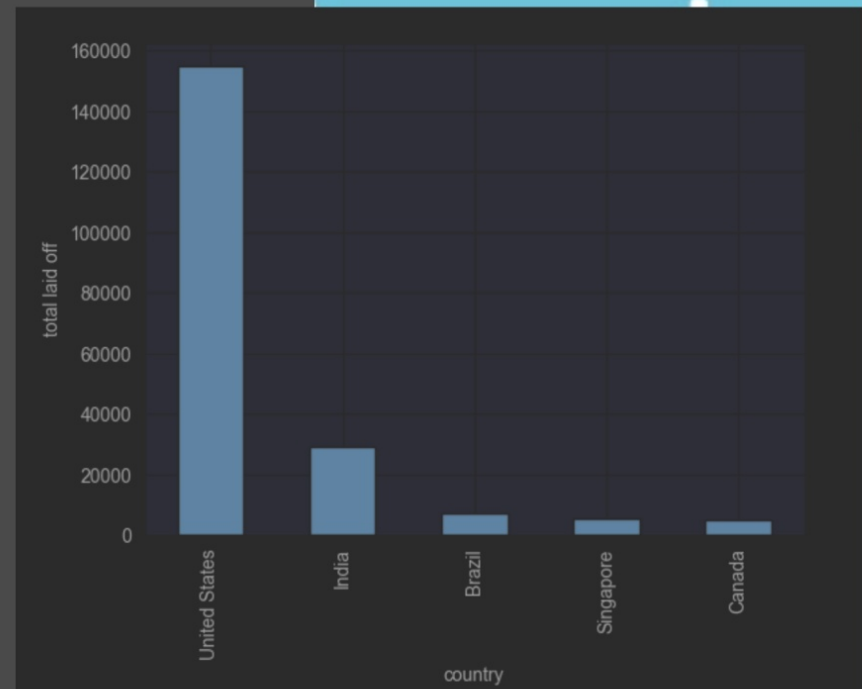


Companies that laid off the most number of employees

Cont.

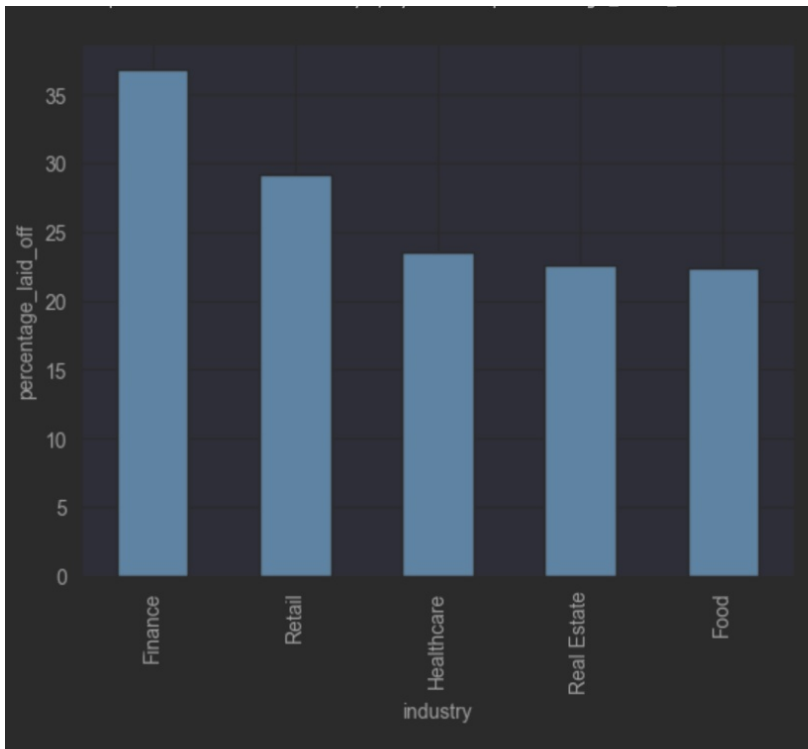


Comparing total laid off by location within the United States

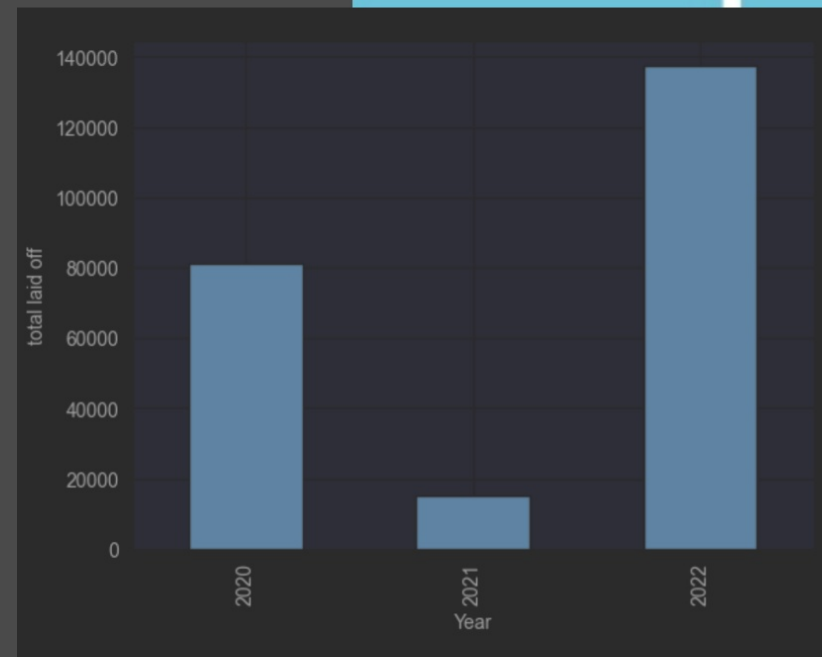


Total layoffs worldwide

cont.



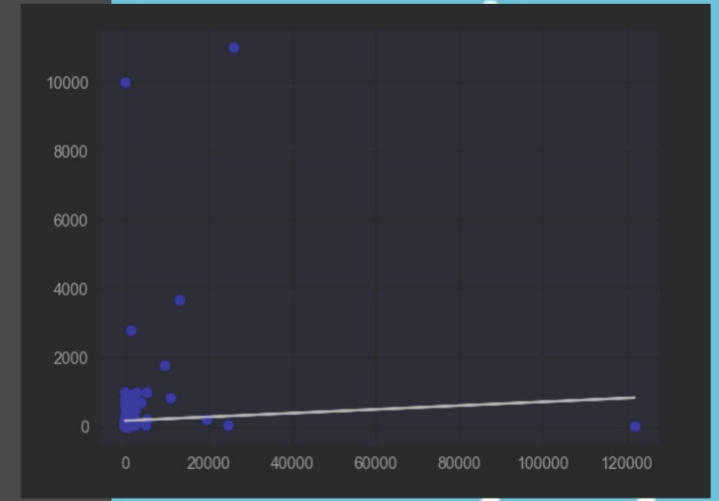
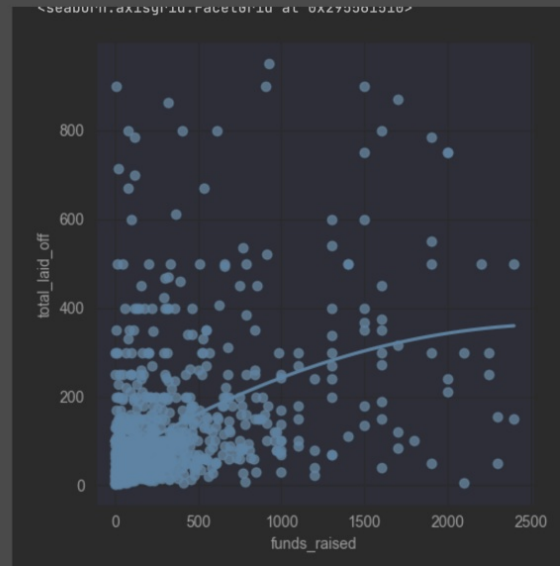
**Correlating
percentage of
employee layoffs
within an industry**



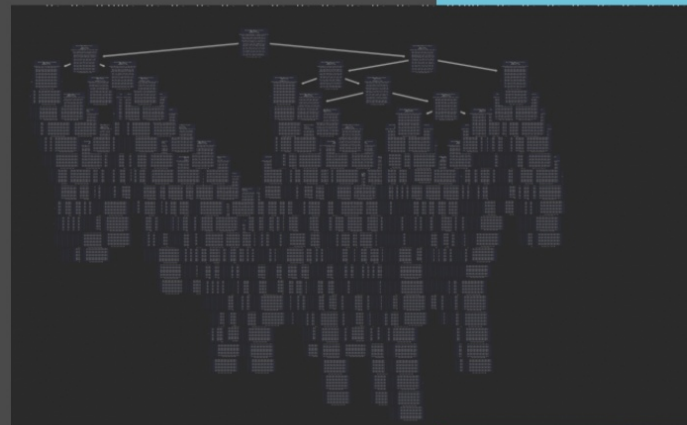
Layoffs in previous years

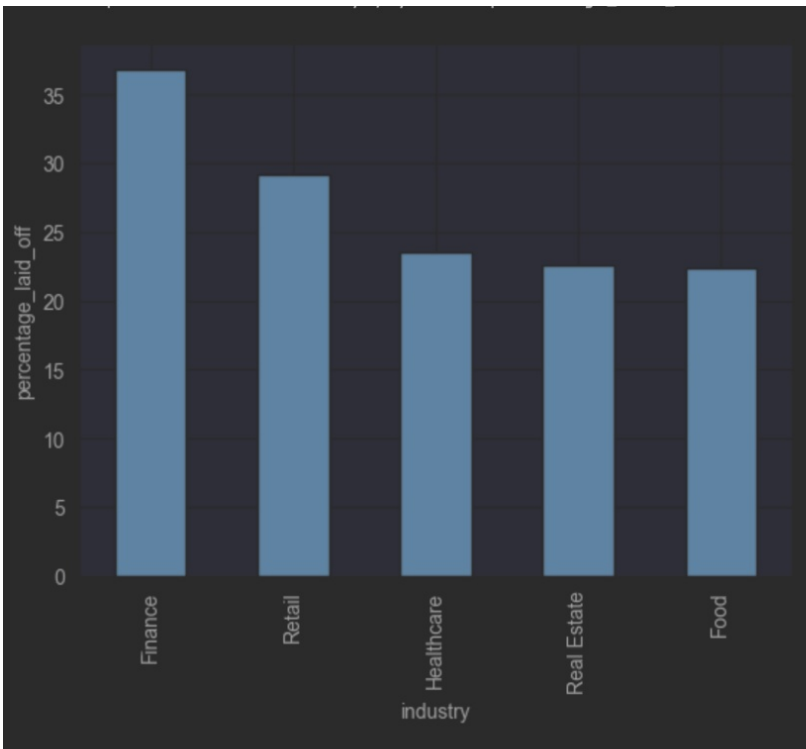
Machine
Learning

Linear Regression

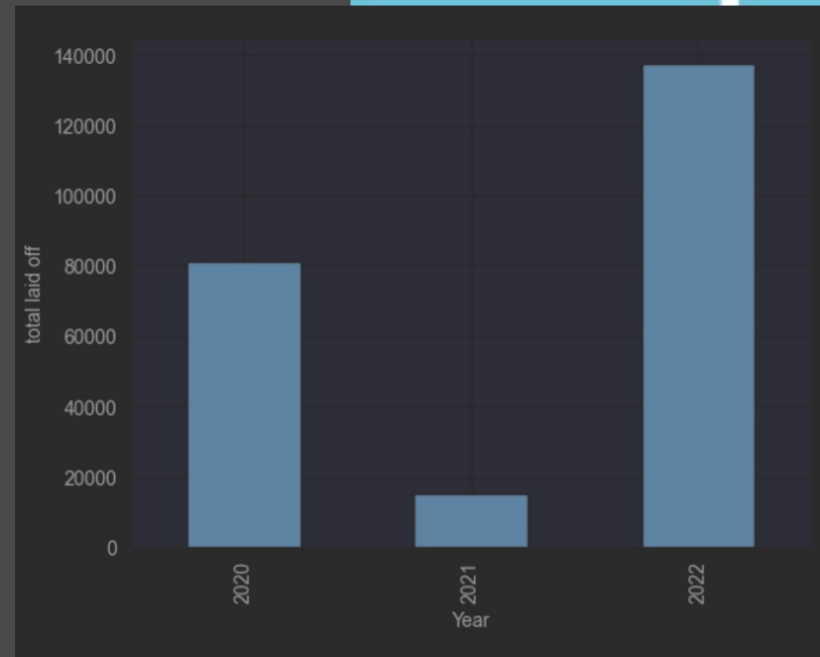


Decision Tree Model



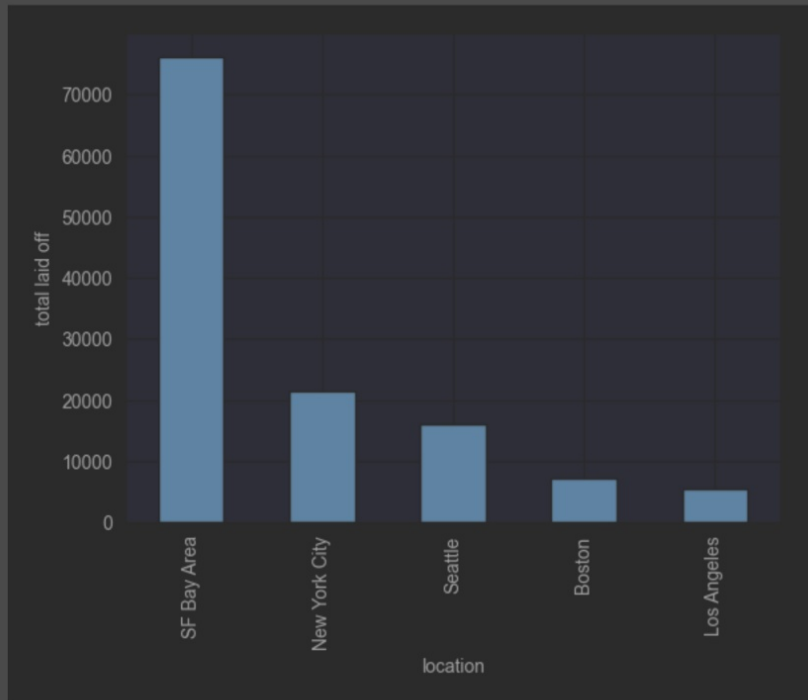


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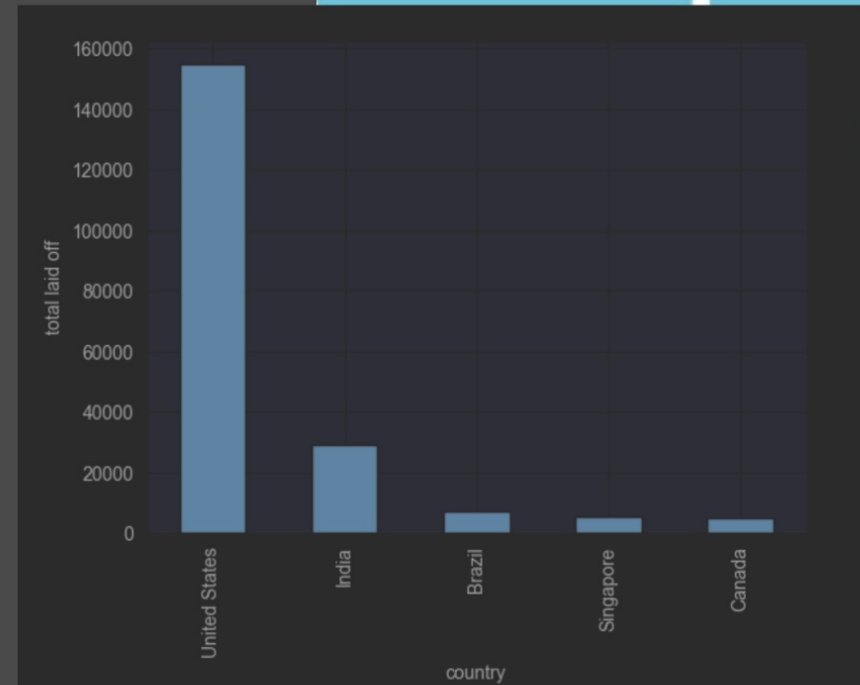


Layoffs in previous years

Machine
Learning

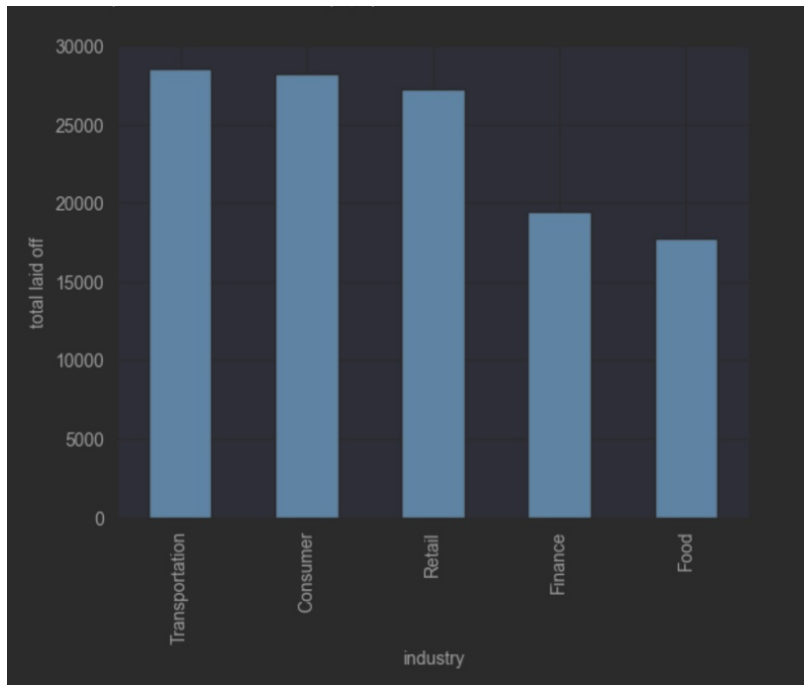


Comparing total laid off by location within the United States

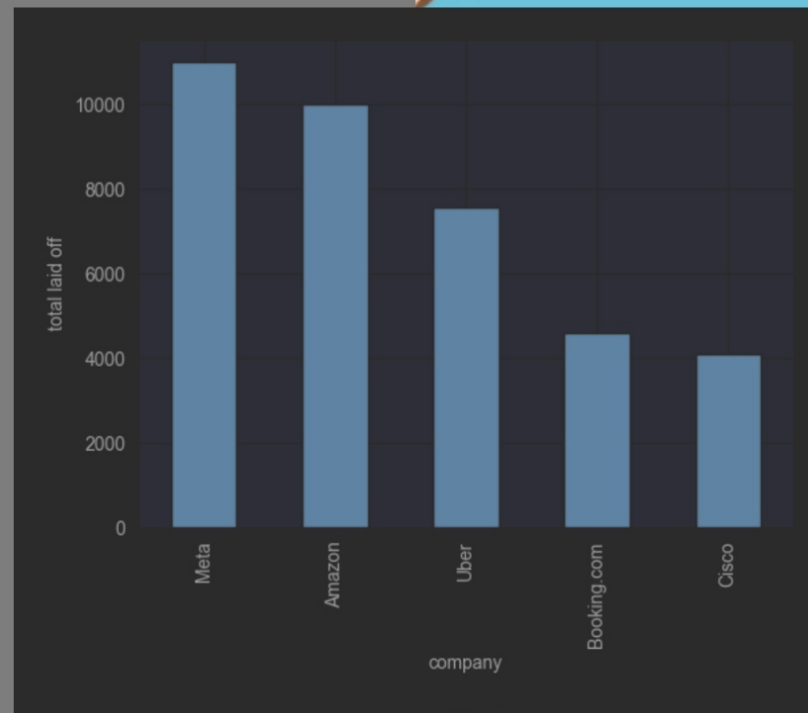


Total layoffs worldwide

cont.



Industries that laid off the greatest number of employees



Companies that laid off the most number of employees

Cont.

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Recomendations

The dataset results are for the benefit of avoiding locations, companies, industries that of late, were harshly affected from being forced to layoff their employees. This will provide a more secure job search for those employees laid off that are in search of a new job.



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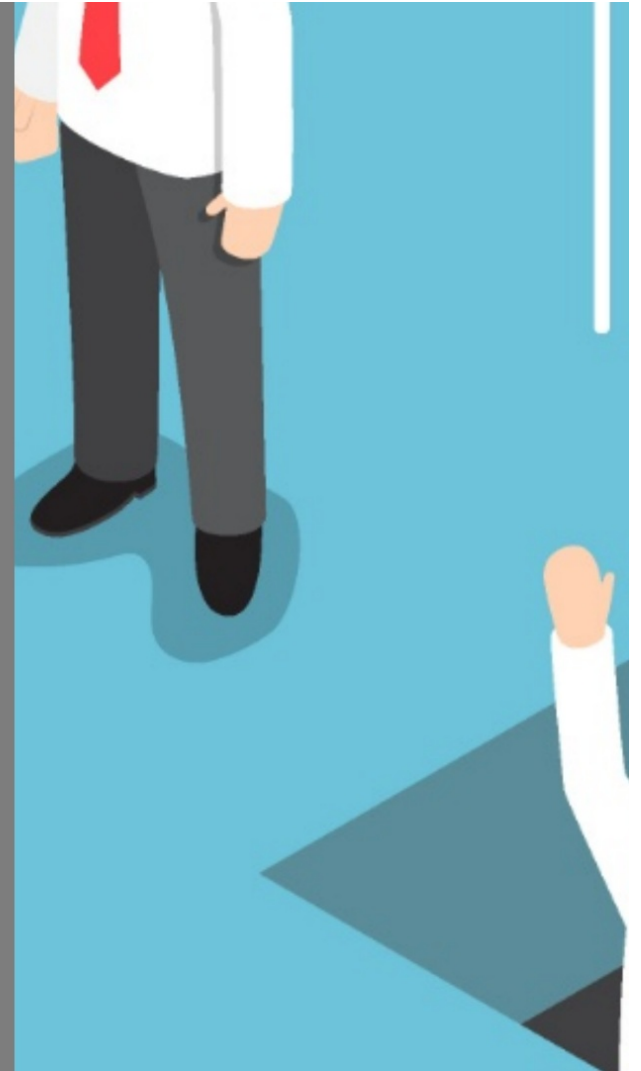
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Next Steps?

- Gather more data on layoffs outside of tech positions.
- Research machine learning algorithms to predict layoffs in upcoming years using more datasets



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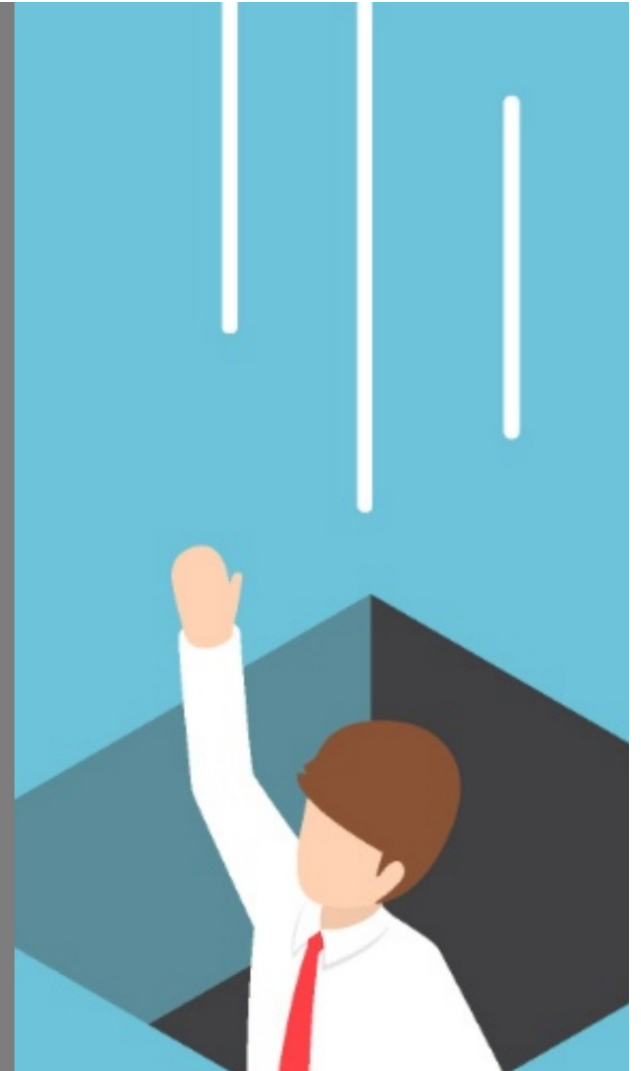
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Hope everyone finds
this informations
somewhat useful and
wishing everyone best
of luck in their
professional careers!



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