Group 15

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Dataset A: Tech Salaries Dataset

1. **What interests you about this dataset?**

This data set provides relevant insight into potential job opportunities in the tech industry.

1. **What would a research question look like for each of the models we’ve discussed**

**(linear regression, logistic regression, decision trees)?**

* Linear regression: Does the city you reside in influence the base salary of Microsoft employees? Or What is the correlation between the city you reside in and your base salary while employed with Microsoft?
* Logistic regression: Do factors such as years of experience, tenure, and education level determine your base salary?
* Decision tree: What combinations of factors such as location of job, education level, years at the company, and years of experience would best predict base salary?

1. **What data points would be relevant for each model?**

* Linear regression: City, company, and base salary
* Logistic regression: Education level, years of experience, years at the company, and base salary
* Decision Tree: Base salary, education level, years at the company, and years of experience

1. **What would you need to conceptualize? What would you need to operationalize?**

Conceptualize: Cities in Washington state; Seattle, Redmond, Bellevue, Kirkland

Defining the base salary for Microsoft tech employees

Operationalize:

1. Ethical considerations:

How stakeholders will benefit or be harmed

* Employees- their salaries determine lifestyle, either support or harm them
* The company-retention, recruiters
  + Indirectly
    - families of the employees- they
    - the consumer

Question:

How do your location, education, and years of experience determine your base salary when employed by Microsoft, Google, or Amazon?

Context and Implications:

Literature review each group member needs to find 2 peer reviews (10 in total)

**Intro:** This project aims to analyze how salary structures influence lifestyle choices, career, decisions, and societal contributions. It also highlights the disparities that may exist within the tech industry and seeks to address how these impact salary conclusions. By exploring the location and years of experience, education, and employment location, we can see the impact of compensation on the survival of this capitalistic economy.

Data bias: when choices in data analysis lead to skewed outputs that might impact results

* Most people assume that tech companies have high-paying salaries (historical biases)
* AI possibly decreasing tech employment rates ( Historical bias)