

Project Proposal

NAME: Tien Long Bui, **STUDENT ID:**

TEACHING ASSOCIATE: Megan Power and Bruno Mendivez, Applied Session 5.

Project Title: An Investigation into Data Science Remuneration Trends in 2023

Introduction and Motivation

The world of data science, with its emphasis on "science," has always attracted those who love working with data. Through my personal lens, people often say this profession is all about hard work and a dull routine of staring at screens for hours. To prevent falling into the trap of misconceptions in this field, my project proposal titled "An Investigation into Data Science Remuneration Trends in 2023" comes into play. Recent media and study reports indicate that Data Science job is more in demand than ever with employers and recruiters [1]. I believe this topic holds significance for those in the academic realm but also a diverse audience whose considerations span the spectrum of vocational passion and financial gain.

Questions

1. What is the most popular job title, and how do these vary over the company size? By the same token, what is the least popular job title, and how do these vary over the company size?
2. What is the experience level vary over the company size? Given these, give insight with the company location
3. How does qualification of one's vary their salary and benefit regarding their job title?

Data sources:

- A. Data Science Salaries 2023, which has been public as open database on Kaggle.com.
- B. Data Science Job Postings and Salaries Dataset, which has also been public on Kaggle.com

The data source A will allow me to answer question 1 and 2, while the combination of data sources A and B will allow me to answer question 3

Description of data sources:

- Tabular data: 3756 rows x 10 columns
(<https://www.kaggle.com/datasets/arnabchaki/data-science-salaries-2023>)
- Tabular data: A zip with clean data, and a raw data with 1344 rows x 8 columns
(<https://www.kaggle.com/datasets/michaelbryantds/california-salaries-in-data-science>)

REFERENCES

[1] Davenport, Thomas H. (2022), "Is Data Scientist Still the 'Sexiest Job of the 21st Century'?" Harvard Business Review, July 2022. URL: <https://hbr.org/2022/07/is-data-scientist-still-the-sexiest-job-of-the-21st-century>. [Accessed on: [07.08.2023]].