Analysis of Data Science Earnings and Remote Work ratio from 2020 to 2022

Big Data Tools and Analytics

Masters in data Analytics for Business
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For our group project we propose to examine data science job earnings. More specifically, we'll analyze earnings variations due to job title, experience level and company size and we'll also try to determine in which nations and businesses the highest wages are paid. Finally, we'll evaluate the salary trends in the years 2020 to 2022 and the remote work ratio by company size and job title.

To perform such analysis , we will do this by using a dataset from Kaggle[1]. The dataset we are considering using contains information regarding the work year, experience level, employment type, job title, salary (with currency), employee residence, remote ratio, company location and size.

The set of tasks and questions we propose to answer with the mentioned dataset are the following:

- Rank in descending order the average salary of Data Scientists by country (regardless of job title and experience level)
- Rank in descending order the average salary of Data Scientists by job title (regardless of country and experience level)
- Does the company size affect the average salary (keeping the same experience level and job title)?
- Of the companies that employee data scientists what percentage are small, medium, and large?
- Rank in descending order the remote work ratio by job title
- Rank in descending order the remote work ratio by company size
- What is the annual trend of average salaries of Data scientists?
- Which Job title has seen the highest salary increase YoY?
- For each job title, how does the average salary vary depending on experience level?

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[1] Ruchi Bhatia (2022). Data Science Job salaries. Kaggle. Retrieved February 27, 2023, from https://www.kaggle.com/datasets/ruchi798/data-science-job-salaries.