**Project2**

**Data: Jobs and Salaries in Data Science**

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| **Project Title** | **Data Science Jobs and Salaries Analysis** |
| **Skills take away From This Project** | **Python coding, Data Preprocessing, Visualization** |
| **Domain** | **Recruitment Industry, Job portal, Job Posting** |

**Problem Statement:**

You a are given the dataset extracted from a famous job portal that explains the job status of various data related jobs posted during the year 2023.The data explains the various job designation and related salaries from across the world. As a data scientist at Oeson your job is to extract meaningful insight from this data in order to explain the actual remuneration each job title is providing across the globe. It will help recruiters understand the job requirements better in term salaries across different levels of work experience so that they can get proficient profiles for any data related requirement.

**Objective:**

* **To perform data analysis on the data pertaining to the problem statement**
* **Provide analysis through different charts with proper labelling and format**
* **Provide detailed inference from the given charts explaining business**

**relevance.**

* **Upload your work in the github environment(Include link in presentation)**
* **Prepare a presentation video and post it on LinkedIn.**

**Data Description**

**work\_year**: The year in which the data was recorded. This field indicates the temporal context of the data, important for understanding salary trends over time.

**job\_title**: The specific title of the job role, like 'Data Scientist', 'Data Engineer', or 'Data Analyst'. This column is crucial for understanding the salary distribution across various specialized roles within the data field.

**job\_category**: A classification of the job role into broader categories for easier analysis. This might include areas like 'Data Analysis', 'Machine Learning', 'Data Engineering', etc.

**salary\_currency**: The currency in which the salary is paid, such as USD, EUR, etc. This is important for currency conversion and understanding the actual value of the salary in a global context.

**salary**: The annual gross salary of the role in the local currency. This raw salary figure is key for direct regional salary comparisons.

**salary\_in\_usd**: The annual gross salary converted to United States Dollars (USD). This uniform currency conversion aids in global salary comparisons and analyses.

**employee\_residence**: The country of residence of the employee. This data point can be used to explore geographical salary differences and cost-of-living variations.

**experience\_level**: Classifies the professional experience level of the employee. Common categories might include 'Entry-level', 'Mid-level', 'Senior', and 'Executive', providing insight into how experience influences salary in data-related roles.

**employment\_type**: Specifies the type of employment, such as 'Full-time', 'Part-time', 'Contract', etc. This helps in analyzing how different employment arrangements affect salary structures.

**work\_setting**: The work setting or environment, like 'Remote', 'In-person', or 'Hybrid'. This column reflects the impact of work settings on salary levels in the data industry.

**company\_location**: The country where the company is located. It helps in analyzing how the location of the company affects salary structures.

**company\_size**: The size of the employer company, often categorized into small (S), medium (M), and large (L) sizes. This allows for analysis of how company size influences salary.

## **What you can visualize from the data?**

## **Get frequency of each year**

## **Get Average Salaries for each year**

## **Get frequency of job titles**

## **Get the top 10 most common data jobs**

## **Visualize average salaries by job titles and the top job\_titles with highest average salaries and least average salaries**

## **Visualize Average Salaries for the most common job titles**

## **Visualize distribution of job categories**

## **Average Salaries by Job Category**

## **Visualize average salary in usd based on currency**

## **Visualize average salary based on employee residence and company location**

## **Visualize salary based on experience level**

## **Visualize average salary based on employment type, work setting and company\_size**