

#PersonalProjects

Got this dataset from <https://www.kaggle.com/code/devraai/analyzing-salary-data-trends-and-predictions>. I will be using [Power Bi](#) with [Python](#) and try to explore and answer the questions i created.

Preformed tasks is written in : [Salary Analysis - EDA](#)

Final Report can be found in : [Salary Analysis - Final Report](#)

This is rough notes

Questions

- **1 Salary Analysis:**
 - What is the average salary by job title?
 - How does salary vary by education level?
 - Is there a gender pay gap in the dataset?
 - How does salary correlate with years of experience?
- **2 Advanced Insights:**
 - Can you identify trends in salary based on a combination of factors (e.g., education level + years of experience)?
 - Can you create a predictive model (using AI insights) to estimate salary based on age, education, and experience?
- **3 Demographic Analysis:**
 - What is the distribution of employees by age group?
 - How does gender distribution vary across job titles?
 - What is the most common education level in the dataset?

Ideas

1. **Bar/Column Charts:**
 - Average salary by job title.
 - Salary distribution by education level.
 - Gender pay gap by job title.
2. **Line Charts:**
 - Salary growth over years of experience.
3. **Pie/Donut Charts:**
 - Gender distribution across job titles.

- Education level distribution.

4. **Scatter Plots:**

- Correlation between salary and years of experience.

5. **Tables/Matrices:**

- Detailed salary breakdown by job title, gender, and education level.

6. **Drill-Through Pages:**

- Create a detailed page for each job title, showing salary distribution, gender breakdown, and education level.