

DEMANDING JOB ANALYSIS

1. Project Overview and Objective

- ❖ This project involves cleaning, transforming, and analysing raw data using **Excel** and creating an interactive **Power BI dashboard** to derive meaningful business insights.
- ❖ The main objective is to demonstrate data pre-processing techniques using Excel and an interactive Power BI dashboard visualization to make informed decisions.

2. Data Sources

- ❖ **Source Description and Timeline:** Google Dataset Search **and** 2010-2025.
- ❖ **Domain:** Demanding job Prediction (Based on Random Linked In profiles)

3. Problem Statement

- ❖ To analyse linked in job profiles in various companies to identify the job allocation of domains
- ❖ To find higher count of employees on which field based on their experience
- ❖ To study how they survive on that field with their skills and certifications
- ❖ To calculate the overall salary with hike

4. Attribute (Column /Features) Details:

Attribute Name	Data Type	Description
Job Tittle	String	Designation of Employees
Company	String	Employees Working Company
Industry	String	Which field that company belongs to
Location	String	Place of Working
Levels	string	Experience Level
Years Of Experience	Numeric	How Many of years they are Working
Education	String	Degree they Pursued
Skills	String	Added Qualities They Have
Current Role Year	Numeric	Currently Working Year
Previous Company	String	Last worked Company
Profile Headline	String	Employees Domain
Certifications	String	Certified course employees did

Salary (USD)	Numeric	Salary of Employees
Hike	Numeric	Increment of Employees
Adjusted Salary	Numeric	Addition of Salary and Hike

5. Tools & Technologies

- ❖ **Excel:** Data cleaning, transformation, and Pivot Tables.
- ❖ **Power BI:** visualization, and interactive dashboard creation.

6. Data Pre-Processing (Excel)

Tasks Performed:

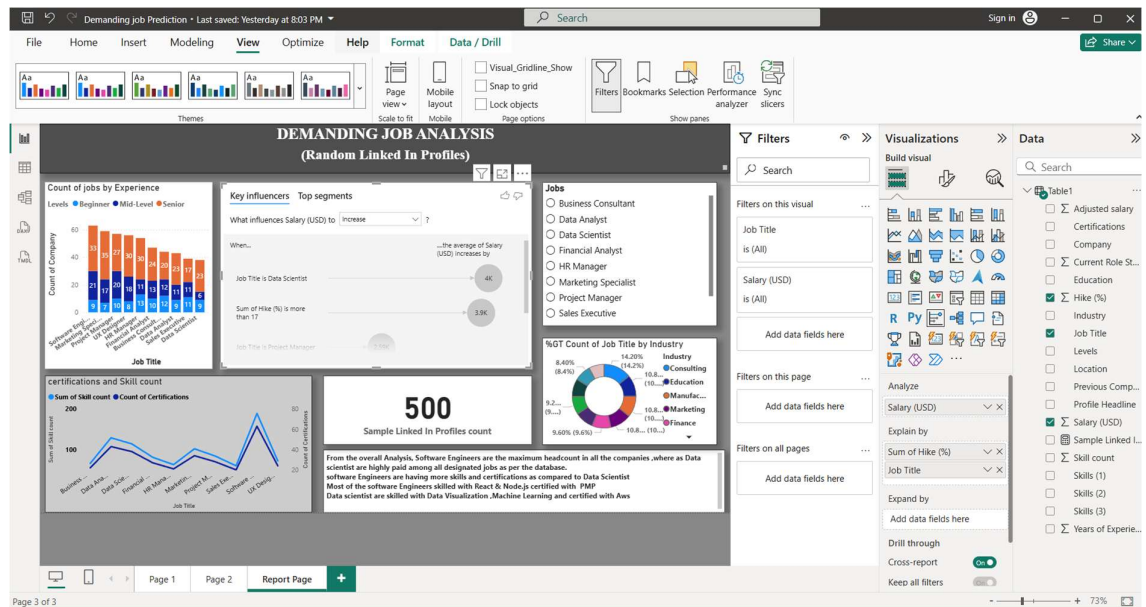
- ❖ **Data Cleaning & Transformation:** Removed duplicates, handled missing values, standardized formats
- ❖ **Categorize Columns:** categorize levels based on years of experience
- ❖ **Split column:** Split skills column by comma
- ❖ **Calculated column:** Found Adjusted salary by adding the salary and hike then calculate skills count

7. Analysis and Visualizations (Power BI)

Dashboard Features:

- ❖ **Multiple Visualizations based on problem statement:** Stacked column chart,
- ❖ Area chart, cards, Donut chart, key influencer, Narrative to communicate insights.
- ❖ To Make report interactive using **Drill-down, Filters and slicers**
- ❖ **Clear Titles for each visuals & Labels**
- ❖ **Created a consolidated Report &Dashboard.**

SCREENSHOT OF REPORT



8. Insights & Conclusions

- ❖ **Key Findings:** Software Engineers are in higher count in overall company
- ❖ **Software Engineers having more skills and certifications**
- ❖ **Data Scientist are paid high with minimum experience**
- ❖ **Senior level employees are in more count in all fields**

9. Conclusions

Data Scientist are in high paid positions with minimum experience, Skills, certifications when compared to other domains but **Software Engineers** are having high count on most of the companies with high skills and certification