SUMMARY: DATA PROFESSIONALS INSIGHT DASHBOARD

1. Data Collection-

- Data was collected from **630 survey respondents** across various countries.
- The dataset included fields such as:
    - Country
    - Age
    - Job Title
    - Industry
    - Salary
    - Programming Language
    - Work-life balance and salary satisfaction
    - Difficulty of entering the data field

---

2. Data Preparation-

- **Tool Used:** Python & Excel
- Steps:
    - Cleaned raw data by handling missing/null values
    - Standardized job titles and programming language entries
    - Converted salary and rating data into numerical formats
    - Filtered irrelevant or inconsistent responses

---

3. Data Analysis (Exploratory)-

- Performed **descriptive statistics** to understand:
    - Distribution of professionals by country and job title
    - Average salary by job role
    - Age trends
    - Rating averages for work/life balance and salary satisfaction
- **Correlated variables** like job title vs. salary, and experience vs. difficulty

---

4. Dashboard Design in Power BI-

- **Tool Used:** Power BI

- Created visuals for key insights:
    - **Tree Map** for survey taker distribution by country
    - **Bar Chart** for average salary by job title
    - **Gauge Chart** for average satisfaction scores
    - **Donut Chart** to show difficulty entering the data field
    - **Bar Chart** for favorite programming language by role
    - **Pie Chart** showing industry distribution
    - **KPI Cards** to highlight total survey count and average age

---

5. Insight Derivation-

- Analyzed visuals to draw meaningful insights:
    - Data Scientists earn the highest
    - Python is the most preferred language
    - Work-life balance satisfaction is moderate
    - Tech and Finance dominate in data roles
    - Entry into data careers is still considered hard by many

---

6. Summary and Reporting-

- Prepared a **project summary**, **stakeholder insights**, and **recommendations** based on the dashboard analysis.
- Highlighted key findings and strategic implications for organizations.

✅ Tools & Skills Demonstrated

- **Excel**: Initial analysis, data cleaning
- **Python**: Data wrangling, handling missing values, basic EDA
- **Power BI**: Dashboard creation, KPI cards, visual storytelling
- **Analytical Thinking**: Identifying patterns, deriving insights
- **Business Communication**: Presenting findings in a meaningful way