**Data Science Job Salaries Dashboard**

To create a **Data Science Job Salaries Dashboard** in Tableau, let's outline the step-by-step process for building the report to answer all your questions through an engaging storytelling approach:

**1. Understand the Dataset**

Ensure the dataset includes the following columns (or similar):

* Experience Level: Junior, Mid, Senior, or Executive
* Job Title: E.g., Data Analyst, Data Scientist, Machine Learning Engineer
* Average Salary (USD)
* Country: For geographical insights
* Employee Residence: Top employee residence breakdown
* Company Size: Small, Medium, or Large
* Employment Type: Full-time, Part-time, Contract, Freelance

**2. Dashboard Layout and Storytelling Questions**

**A. Main Questions to Address:**

1. **Experience Level Analysis**
   * How do salaries differ by experience level?
   * Include an aggregated view of average salaries for each experience level.
2. **Map: Average Salary by Country**
   * Which countries offer the highest salaries on average?
3. **Average Salary by Job Title and Experience Level**
   * Visualize salary trends based on job title and experience level (e.g., Heatmap or Bar chart).
4. **Total Companies by Size**
   * Breakdown of companies into Small, Medium, and Large categories.
5. **Employment Type Analysis**
   * Salary variations based on employment types.
6. **Top 10 Employee Residences**
   * Identify the top locations where employees reside.
7. **Average Salary in USD by Experience Level and Employment Type**
   * Combination analysis to compare experience level with employment types.

**3. Steps to Build the Dashboard**

**Step 1: Tableau Workbook Setup**

* Import the dataset into Tableau.
* Create calculated fields as needed (e.g., if salary needs conversion or aggregations).

**Step 2: Individual Sheets**

For each question, create a separate Tableau sheet.

**Sheet 1: Experience Level Analysis**

* Use a **Bar Chart** showing average salary (AVG(Salary)) by Experience Level.

**Sheet 2: Map - Average Salary by Country**

* Use a **Filled Map** to display Country as geographical regions with AVG(Salary).

**Sheet 3: Average Salary by Job Title and Experience Level**

* Use a **Heatmap** (Job Titles on X-axis, Experience Level on Y-axis) with AVG(Salary) as color intensity.

**Sheet 4: Total Companies by Size**

* Create a **Pie Chart** or **Bar Chart** showing the number of companies by Company Size.

**Sheet 5: Employment Type Analysis**

* Use a **Bar Chart** showing AVG(Salary) for each Employment Type.

**Sheet 6: Top 10 Employee Residences**

* Create a **Horizontal Bar Chart** sorted by the top 10 Employee Residence with the highest count.

**Sheet 7: Average Salary by Experience Level and Employment Type**

* Use a **Pie chart** (Experience Level on X-axis, Employment Type as color) with AVG(Salary).

**Sheet 8: Average Salary by Job Title and Experience Level**

* Use a **Pie Chart** to show salary trends across these dimensions.

**4. Combine into a Dashboard**

* Arrange sheets into a logical sequence using Tableau's Dashboard pane:
  1. **Header**: "Data Science Job Salaries Insights"
  2. **Left Side**: Interactive filters for Country, Experience Level, and Job Title.
  3. **Center**: Key questions (Experience Level Analysis, Map, Heatmap).
  4. **Right Side**: Supporting visuals (Company Size, Employment Type).

**5. Interactive Features**

* Add **Filters** for Country, Experience Level, Employment Type, and Job Title.
* Add **Tooltips** to display additional details for each data point.
* Use **Actions** (e.g., clicking on a country on the map filters related charts).

**6. Storytelling Tips**

* Introduce the analysis with a **title and narrative** to provide context, such as:
  + "Explore how salaries vary across countries, job roles, and levels of experience in Data Science."
* Highlight insights:
  + “Senior-level professionals in the US have the highest salaries, averaging $X annually.”
  + "Large companies offer the most jobs, but medium-sized companies pay the highest salaries on average."
* Include **key takeaways** at the end of the dashboard.