

Project Documentation: Interactive Salary Dashboard in Excel

Project Title:

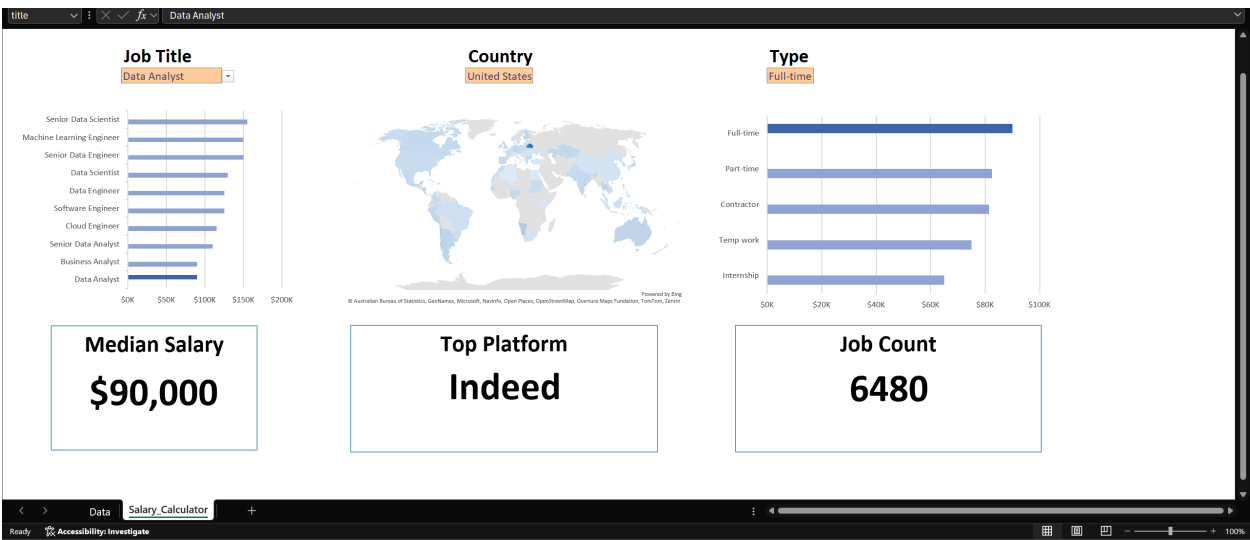
Data Jobs Salary Calculator Dashboard

Project Overview:

This Excel-based project delivers an interactive, user-friendly dashboard that allows users to:

- Select a **Job Title**, **Country**, and **Job Type** from dropdowns.
- Instantly calculate the **median salary** for that combination.
- Identify the **top hiring platform** for the selected role.
- Display the **number of available jobs** that match all selected filters.
- Visualize job market trends by **job title**, **job type**, and **geography** through intuitive bar and map charts.

The dashboard is designed for recruiters, analysts, job seekers, or decision-makers looking for quick, data-driven insights into hiring trends and salaries in the tech/data sector.



Key Features:

- **Dynamic Dropdown Filters:**
 - Job Title
 - Country
 - Job Type (e.g., Full-time, Contractor, Internship)
 - **Auto-Calculating Metrics:**
 - Median salary based on filtered records
 - Most common hiring platform for that job
 - Total count of jobs that match the filters
 - **Visual Components:**
 - **Bar Chart 1:** Median salaries by job title (for top 10 roles)
 - **Bar Chart 2:** Average salary by job type
 - **Map Chart:** Job distribution by country (interactive)
 - **Clean and Modern Layout:**
 - Minimalist theme with bold headings and focused content blocks
 - Highlight boxes for salary, platform, and count
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Data Sources & Structure:

- **Primary Sheet: Data**
 - Contains raw job listing information including job title, country, salary, platform, and type.
 - **Supporting Sheets:**
 - Data_Validation: Named lists for dropdowns (job titles, countries, types)
 - Country, Platform, Type: Separate columns used for cleaner data management and validation
 - Median_Salary: Calculated metrics and formula outputs to power visuals
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Core Formulas & Logic:

- **Median Salary (Dynamic with Conditions):**

```
=IFERROR(  
  MEDIAN(IF(  
    (jobs[job_title_short]=A2) *  
    (jobs[salary_year_avg]<>0) *  
    (jobs[job_country]=country) *  
    ISNUMBER(SEARCH(type, jobs[job_schedule_type])),  
    jobs[salary_year_avg]  
  )),  
  "N/A"  
)
```

- Filters the main data table to only include rows matching all three filters.
- Ignores rows with 0 salary.
- Returns the median salary or "N/A" if no match is found.

Top Platform:

```
=XLOOKUP(title, D2:D11, E2:E11)
```

- Pulls the platform with the most postings for the selected job title.
- Based on a helper table that counts and ranks platforms by job.

Job Count:

```
=COUNTIFS(  
  jobs[job_title_short], title,  
  jobs[job_country], country,  
  jobs[job_schedule_type], "*" & type & "*",  
  jobs[salary_year_avg], "<>0"  
)
```

- Counts how many jobs exist that match all selected filters and have a valid salary.
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Visual Design Elements:

- **Theme:** Professional white background with high-contrast headers
 - **Dropdowns:** Highlighted with orange fill to direct attention
 - **Charts:**
 - Blue-shaded horizontal bar charts for easy comparison
 - Metric cards (Median Salary, Top Platform, Job Count) in large, readable fonts
 - **World Map:** Positioned centrally to give global insight (note: dependent on clean country data)
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Known Limitations:

- **Map Chart Warnings:**
 - Some country names are not standardized, causing map rendering issues.
 - **Partial Match Risk in Job Type:**
 - SEARCH() may match unintended substrings (e.g., "Intern" in "International")
 - **No Fallback Message:**
 - When no matching data is found, dashboard returns empty visuals or "N/A".
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Summary:

This Excel dashboard project demonstrates:

- Proficiency in advanced Excel formulas (XLOOKUP, SEARCH, MEDIAN, IF, COUNTIFS)
- Dashboard thinking: filtering, interactivity, and clean layout
- Application in real-world analytics and hiring scenarios

Note: Most of the data used in this project was sourced from US sources so therefore it will understandably contain more job data from the respective country.