

## # power\_bi\_dashboard\_and\_visuals

Using POWERBI to enhance data visualization with different types of descriptive data visuals and a full dashboard. Interactive home page to cycle through pages and descriptive visuals to help explain data results from large data sets of 497k job postings

🧠 Power BI Data Job Visuals Dashboard

#### Interactive summary of job market data, salary trends, and role distribution.

## #### 📊 Project Overview

The Data Job Visuals Dashboard is an interactive Power BI project that visualizes key insights from job market data.

It showcases advanced Power BI features—such as slicers, bookmarks, KPIs, and dynamic visuals—to make complex data easy to explore and understand.

## #### 🏁 Summary Dashboard

**\*\*The Summary Dashboard serves as the main landing page, presenting a high-level snapshot of the job dataset.\*\***

<b>**Metric**</b>	<b>Value</b>	<b>Description</b>
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<b>** Job Inputs**</b>	497,000	Total job records analyzed
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<b>**Average Yearly Salary**</b>	\$121,000	-- Mean annual salary across all job types
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<b>**Average Hourly Salary**</b>	\$49.16	-- Derived hourly rate from annual salary
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# Key visuals on this page include:

👛 Clustered Bar Chart – Displays the top data-related job titles and their average salaries.

🌐 Interactive Map Visual – Shows job concentration and average salary by location, enhanced with tooltips for detailed insight.

🎯 KPI & Card Visuals – Summarize total jobs, yearly and hourly averages.

📊 Gauge Chart – Compares salaries against performance benchmarks.

🕒 Navigation Buttons and Slicers – Filter and move between dashboards with ease.

🧩 Pages & Visuals Breakdown

## # Interactive Features

**\*\*Dynamic Slicers (Dropdown, Tile, Between) for flexible filtering.\*\***

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<img width="1920" height="1039" alt="TILE AND BETWEEN SLICERS WITH CLEAR ALL SLICERS BUTTON" data-bbox="111 255 838 289"/>

src="https://github.com/user-attachments/assets/1440f875-a519-4c16-91d5-4ab80eb40584" />

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**\*\*Buttons for navigation between dashboards.\*\***

<img width="1918" height="1031" alt="NAVIGATION PAGE" data-bbox="111 493 594 511"/>

src="https://github.com/user-attachments/assets/fd66c59d-d16e-4641-bf77-5a23220aad60" />

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**\*\*Bookmarks for guided storytelling.\*\***

**\*\*Navigator Buttons for seamless multi-page movement\*\***

**\*\*Custom Tooltips provide added insights without cluttering visuals.\*\***

### 1. ## Overview Page

<img width="1917" height="1004" alt="DATA JOBS SNIPSDHOT" data-bbox="111 750 640 767"/>

src="https://github.com/user-attachments/assets/aad20947-5f19-4336-ae13-7a575c4e35d8" />

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- Core performance indicators (Job Count, Avg. Salary, Hourly Rate)
- KPI cards, gauges, and navigational buttons for interaction.

- Slicers for location, experience level, and role type.
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## 2. ## Salary Trends Page



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- Line and Area Charts to visualize salary progression over time.
  - Trend Lines show growth patterns
  - Drill-downs and zoom sliders for deeper time-based analysis.
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## 3. ## Role & Location Insights



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- Stacked/Clustered Column and Bar Charts for job category and region comparisons.
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- Geospatial Analysis: Leveraging MapCharts to visualize the global distribution of jobs.  
Maps and ArcGIS Visuals showing salary and job count distribution geographically
  - Color Legends and Tooltips enhance data storytelling.
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#### 4. ## Data Distribution Page



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- Pie & Doughnut Charts highlight data composition.
- Scatter Charts show correlation between salary and experience.

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- Tree Maps, Ribbon, Waterfall, and Funnel Charts visualize rankings, flow, and impact.

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#### 5. ## Data Table & Detail Page



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- Matrix and Table Visuals with conditional formatting and icons
- Sparklines show micro-trends directly within data tables.
- Hierarchical Drills for exploring time-based patterns (Year → Quarter → Month)

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# Custom Tooltips provide added insights without cluttering visuals.

#### ## 🎨 Design Highlights

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- Cohesive color scheme and consistent design elements.
- Smooth navigation through bookmarks and buttons.
- Page layout emphasizes storytelling and usability.

- Optimized for clarity and data-driven decision-making.

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## ## 🧰 Tools & Technologies

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- Microsoft Power BI Desktop (.pbix)
- ArcGIS Maps for Power BI for geospatial insights
- Data Transformation (ETL) with Power Query: Cleaned, shaped, and prepared the raw data for analysis by handling blanks, changing data types, and creating new columns.

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## ## ⚡ Installation & Usage

### ### Download:

- 1) [DATA JOB VISUALS.pbix]

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([https://github.com/dareoyeleke/power\\_bi\\_dashboard\\_and\\_visuals/blob/main/DATA%20JOB%20VISUALS.pbix](https://github.com/dareoyeleke/power_bi_dashboard_and_visuals/blob/main/DATA%20JOB%20VISUALS.pbix))

- 2) [DATA JOBS DASHBOARD]

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([https://github.com/dareoyeleke/power\\_bi\\_dashboard\\_and\\_visuals/blob/main/DATA\\_JOBS\\_DASHBOARD.pbix](https://github.com/dareoyeleke/power_bi_dashboard_and_visuals/blob/main/DATA_JOBS_DASHBOARD.pbix))

- Open in Power BI Desktop.
- Explore using:
  - Page tabs or navigation buttons
  - Slicers for filtering data dynamically
  - Tooltips for quick contextual details
  - Drill-Throughs To navigate from a high-level summary to a contextual, detailed view.
- Implicit Measures Formulated measures to derive key insights and KPIs like `Median Yearly Salary and Job Count`