Traceability Matrix

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| **Requirement (from Charter)** | **Information Needed** | **Visual Output (Type)** | **Interactivity/Filters** | **Validation Method** |
| Different job roles in demand | Job title | Card (Top Job Role) | Job Title slicer | SQL aggregation check, Power BI data table review |
| Understand job availability by location | Job count by state | Bar Chart (Top Hiring States), Map | State slicer | Validated in SQL group by location, map tested for accuracy |
| Determined companies hiring the most | |  | | --- | | Company-wise job count |  |  | | --- | |  | | Bar Chart (Top Hiring Companies) | Company slicer | Compared with SQL group by company, Power BI visual filter test |
| Average salary overview | All salary values | Card (Average Salary), Gauge Chart | Salary Range slicer | Average verified via DAX and avg () |
| Analyze salary distribution | Salary ranges per job count | Histogram/Column Chart | Salary Range slicer | cross-checked manually |
| Compare average vs Highest salary | Salary statistics | Gauge Chart | Average Salary and Highest Salary | Average validated via Power BI measure |
| Skills required for roles | |  | | --- | | Keywords from job descriptions |  |  | | --- | |  | | Word Cloud | Skills slicer | Match the skills in the job description against the selected job role |
| Analyze sector-based trends | Industry/sector for each job, year posted | |  | | --- | | Box Plot, Sankey Chart |  |  | | --- | |  | | |  | | --- | |  |  |  | | --- | | Year, Sector slicers | | comparison with market(given) data |
| Evaluate job roles by sector | Sector-wise job role distribution | Tree Map | Filters: Sector, Industry | SQL join & filter logic tested for consistency |
| **Requirement (from Charter)** | **Information Needed** | **Visual Output (Type)** | **Interactivity/Filters** | **Validation Method** |
| |  | | --- | | How salaries vary by state |  |  | | --- | |  | | State-wise salary estimates | |  | | --- | | Filled Map, Tree Map |  |  | | --- | |  | | State, Salary Range | Power BI DAX summary checks |