INTERNSHIP REPORT

DATA ANALYST TASK

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1. Introduction

This internship project focused on building a Real-Time Job Analytics Dashboard to provide meaningful insights into the hiring ecosystem. The solution leverages interactive data visualizations to track trends based on job roles, work types, qualifications, company size, geographic distribution, and user preferences.

The dashboard departs from static job boards by dynamically adjusting visibility based on factors like user preference, timestamp, and map-based interaction. Technologies like Tableau, conditional filters, and geospatial mapping were used to convert raw job data into strategic recruitment insights, facilitating more informed decision-making for both job seekers and employers.

2. Project Context

Modern recruitment platforms must keep pace with rapidly evolving job trends, influenced by global economic conditions and changing workforce behaviors. Most traditional platforms fail to visualize these dynamics interactively.

This project bridges that gap using data visualization tools, especially Tableau, to transform raw job datasets into actionable dashboards. It includes real-time filtering, time-constrained data visibility, preference-based insights, and geolocation tracking—all aimed at enhancing the job application experience and recruitment strategies.

3. Project Goals

- Design dashboards that adapt to real-time user conditions like time of day, geography, and user preference.
- Integrate geospatial features, allowing map interactions based on latitude and longitude.
- Create conditional charts triggered only under specific filters.
- Enable visibility control using time-based logic.
- Improve proficiency in Tableau and Excel for data preparation and visualization.
- Analyze hiring data trends based on roles, qualifications, job titles, company size, and geography.

4. Summary of Tasks

1. Role & Job Posting Analysis: Jobs posted between '30-11-2021' and '30-03-2022' with gender-based work type and filters on company, portal, and country.
2. Country vs Job Title vs Role: Visual representation of roles across various countries.
3. Intern Work Type Analysis: Time-constrained view for 'Intern' work types with multiple conditional filters.
4. African Region Qualifications Dashboard: Shown between 3 PM – 6 PM IST for specified qualifications and mapped location interactivity.

5. Top Companies in Data Roles: Chart visible only between 3 PM – 5 PM IST, excluding Asian countries, focusing on Data Engineer and Data Scientist roles.
6. Mechanical Engineer Dashboard: For Asian countries, filtering by experience, salary, work type, preference, and company size.
7. 7. India vs Germany Chart: Colored visual split showing filtered roles and criteria specific to India and Germany.

5. Skills and Competencies

Technical Skills:

- Tableau (Advanced Dashboard Creation, Calculated Fields, Actions)
- Excel (Data Cleaning & Preprocessing)
- Time-based rendering logic
- Geospatial mapping with interactive lat-long integration

Analytical Skills:

- Designing custom filters for job analytics
- Tracking employment patterns
- Creating dashboards aligned with real-world use cases

Soft Skills:

- Deadline-oriented execution
- Problem solving and debugging dashboard logic
- Effective visual communication

6. Feedback and Evidence

Feedback:

- Dashboard structure well optimized with conditional filters
- Effective integration of map-based interactivity
- Charts respect defined visibility time windows

Evidence:

- Screenshots of dashboards with filters applied
- Real-time validation tests for accuracy
- Approved by mentors for completeness and functionality

7. Challenges and Solutions

- Handling complex filter logic → Used calculated fields and parameterized filters
- Enforcing time-based visibility → System time integration and condition-based rendering
- Lat-Long map click events → Action filters for geographic mapping

8. Outcomes and Impact

Key Results:

- Fully functional dashboards with geolocation and conditional filters

- Implementation of time-window visualizations
- Insightful, role-based job market analysis

Impact:
- Supports informed hiring and job-seeking
- Enhances accessibility and interaction
- Strengthens career readiness through practical skill application

9. Conclusion

The internship involved developing a responsive and data-rich job portal analysis dashboard. This included interactive charting, conditional logic, and map-based filtering. The project successfully transformed complex job market data into clear, visual insights, significantly enhancing my knowledge of data analytics, visualization tools, and their real-world applications in hiring intelligence.