Statement of Work

Prepared for: Data Science at Grras Solutions Pvt. Ltd.

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Statement of Work

Statement of Work: This document outlines the specific details and requirements for the project at hand.

Description of Project

Glassdoor's 2024 EDA Data Science Jobs The website is a dynamic, approachable platform created to investigate and assess market trends for Data Science jobs in 2024. The objective of this project is to turn unprocessed data into insightful knowledge by offering consumers an interactive experience that helps them comprehend important facets of the employment environment.

Term/Schedule

Statement of Work
- One designated resource will be responsible for carrying out the following tasks:

Functional Role	Est. Start Date	Est. Period of Performance
Simran Grover (Data Science team lead at Grras)	29, January 2024	
Shriyansh saini (Trainee at Grras)	29, January 2024	

Deliverables of Project

Dashboard:

- Present a comprehensive overview of the Glassdoor Data Science Jobs dataset.
- Highlight key statistics and trends for quick insights.

Interactive Filters:

- Permit users to apply filters to their exploration, such as job title, firm, location, and income range.

Visualizations:

- Utilize Matplotlib and Seaborn to create visually appealing charts and graphs.
- Illustrate salary trends, job distribution across locations, and other pertinent insights.

Analysis Section:

- Provide a dedicated space for detailed analysis, offering in-depth commentary on notable findings.

Technologies:

- Backend: Flask
- Frontend: HTML, CSS, JavaScript
- Data Manipulation: Pandas, Numpy
- Visualization: Matplotlib, Seaborn
- Deployment: Still to discuss
- Language: Python

Project Workflow:

- Data Loading and Cleaning:
    - Load and clean the Glassdoor Data Science Jobs - 2024 dataset.
- EDA and Visualization:
    - Perform exploratory data analysis and create visualizations to unveil meaningful patterns.
- Flask Application Development:
    - Set up a Flask project structure and develop routes for various sections.
- Interactive Features:
    - Implement JavaScript for interactive filters and dynamic updates.
- Analysis Section:
    - Present detailed analysis in a structured format using Markdown or HTML.
- Testing:
    - To guarantee a flawless and bug-free user experience, carry out extensive testing.
- Deployment:
    - Deploy the Flask application on a chosen hosting platform.
- Documentation:
    - Document the code and provide a user guide for navigation and interpretation.

Timeline:

A detailed timeline with milestones and deadlines will be provided for each phase of the project.

Requirements in Project according to my understanding:

- Include visualizations like bar charts, pie charts, and line graphs to represent salary trends, job distribution, and other relevant metrics.
- Deploy the Flask application on a hosting platform such as Heroku or AWS.
- Provide a feedback form on the website so that visitors can report problems or offer comments on the analysis.
- Provide a geographical distribution of jobs through a map or charts we can use Folium Python library that helps us create several types of Leaflet maps.
- Create a user guide explaining how to navigate the website and interpret the analysis.
- Implementing user authentication in a Flask application involves creating a system that allows users to register, log in, and log out.
- Plotly to create interactive visualizations for your Flask application based on the Glassdoor Data Science Jobs - 2024 data frame.
- We can use Power BI to create interactive and visually appealing dashboards for your Glassdoor Data Science Jobs - 2024 data frame. Power BI is a business analytics service by Microsoft that provides tools for data visualization, business intelligence, and interactive reporting.
- Implementing a notification system in a Flask application involves notifying users about relevant updates or new job listings. We can use a library like Flask-Mail for sending emails.
- Mobile Responsiveness: Ensure that your application is mobile-friendly for users who access it on smartphones or tablets.

- To allow users to share job listings or their profiles on social media platforms, we can integrate social media sharing buttons in your Flask application.
- Allow users to bookmark or save their favorite job listings for future reference.

Project Data Frame Link:

Project Link

Conclusion:

The Glassdoor Data Science Jobs - 2024 EDA Website aims to empower users with valuable insights into the data science job market, fostering a deeper understanding of industry trends and facilitating informed decision-making.

Shriyaush Saini

Data Science Trainee at Grras