Skill Voyage Compass Documentation

–Project by Akshank Dahiya

IIITDM Jabalpur ' 23

Overview: SkillVoyage Compass is a project I developed to analyze job market trends, focusing on skill demand and salary predictions for 2025. I integrated data processing, backend development, frontend design, database querying, and visualization to create a functional tool. This document details the project's structure and process.

Skills and Achievements:

- Processed and analyzed raw data to derive insights.
- Built a backend to manage skill data effectively.
- Designed an interactive frontend interface.
- Created database queries for data extraction.
- Developed visualizations to present trends.
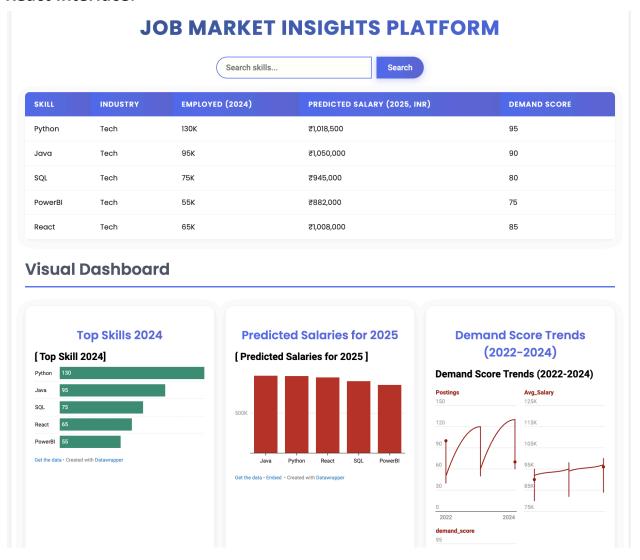
Setup Guide:

- **Clone**: git clone https://github.com/akshankdahiya/SkillVoyageCompass-
- **Frontend**: Go to frontend/, run npm install and npm start for http://localhost:3000.
- **Dashboard**: Open visuals/SkillVoyageDashboard.html.

Challenges and Solutions:

- Resolved file compatibility issues by embedding data.
- Addressed cross-origin restrictions with static images.
- Adapted to ensure a workable solution.

Screenshots:

- ## React Interface:

JOB MARKET INSIGHTS PLATFORM

| Search skills... | Search |

SKILL	INDUSTRY	EMPLOYED (2024)	PREDICTED SALARY (2025, INR)	DEMAND SCORE
Python	Tech	130K	₹1,018,500	95
Java	Tech	95K	₹1,050,000	90
SQL	Tech	75K	₹945,000	80
PowerBI	Tech	55K	₹882,000	75
React	Tech	65K	₹1,008,000	85

Visual Dashboard

Top Skills 2024

[Top Skill 2024]

Python	130
Java	95
SQL	75
React	65
PowerBI	55

Get the data • Created with Datawrapper

Predicted Salaries for 2025

[Predicted Salaries for 2025]

500K

Java Python React SQL PowerBI

Get the data • Embed • Created with Datawrapper

Demand Score Trends (2022–2024)

Demand Score Trends (2022-2024)

Postings
150
120
90
60
30
0
2022   2024

Avg_Salary
125K
115K
105K
95K
85K
75K

demand_score
95

- **Interface -** SkillVoyage Compass successfully runs and compiles at localhost and browser with the above output.

```
Compiled successfully!

You can now view react in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.29.123:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```

Resources and Links:

- **Live Demo**: https://t3739k.csb.app/
- **Charts Source**:
    - ❖ Top Skill Public Link : https://datawrapper.dwcdn.net/RtMkS/1/
    - ❖ Predicted Salary for 2025 : https://datawrapper.dwcdn.net/11GA6/1/
    - ❖ Demand Scores (2022-2024) : https://datawrapper.dwcdn.net/g32MQ/1/
- **GitHub**: https://github.com/akshankdahiya/SkillVoyageCompass-

Effort and Future Work: I invested considerable effort, rating my execution at **8.5/10**. The project meets its goals with potential for future enhancements like real-time data. I will improve it as time goes on.

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--THANK YOU