Alok Singh

+91 8264107435 - - alokvinodsingh02@gmail.com - linkedin - Github - Leetcode

SUMMARY

Motivated software developer with a strong foundation in Object-Oriented Programming, Data Structures & Algorithms, Operating Systems, and RESTful API development. Skilled in Python, JavaScript, and machine learning, with hands-on experience in building intelligent systems and interactive dashboards. Passionate about developing scalable, impactful software solutions and continuously exploring new technologies.

EDUCATION

Lovely Professional University, Jalndhar, India — **city, India**
Bachelor of Technology - Computer Science; CGPA 8.25 — *2023 - 2027*

Army Public School Jodhpur school, Jodhpur, India — **India**
12th; Aggregate 82.8% — *2021 - 2022*

Army Public School Jodhpur school, Jodhpur, India — **India**
10th; Aggregate 78% — *2019 - 2020*

TECHNICAL SKILLS

Programming Languages:

- C, C++, Python, DBMS, HTML, CSS, Java

Tools and Platforms:

- Excel, Git, Github, Vs Code,

Libraries and Databases:

- Numpy, Pandas, Matplotlib, Seaborn

Technologies and Frameworks:

- Git, Github

PROJECTS

Neural Network from scratch Link

Tech Stack: Python, Numpy, Machine Learning, Sklearn

- Implemented a feedforward neural network from scratch using NumPy to detect potential cloudburst events from historical rainfall and meteorological data.
- Developed a Flask-based web application to visualize real-time predictions and rainfall intensity through interactive graphs.
- Compared custom neural network performance with scikit-learn models, fine-tuned via threshold analysis and feature selection.
- Improved model accuracy through rigorous preprocessing, including outlier removal and normalization of rainfall patterns.

Ai Road Trip Planner Link

Tech Stack: Python, Streamlit, OpenCV, APIs (Weather, Social Media), GitHub

- Developed an AI-powered road trip planner web app using Streamlit to automate destination research and itinerary building.
- Integrated image recognition to identify travel destinations from social media posts using OpenCV and custom logic.
- Included real-time weather forecasting via API integration to optimize travel plans based on upcoming conditions.
- Added smart filters to recommend locations based on user interests, seasonal trends, and weather compatibility.

Airline's satisfaction Dataset Analysis Link

Tech Stack: Excel Dashboard

- Designed a comprehensive Excel dashboard to analyze airline passenger satisfaction using interactive visuals and KPIs
- Visualized key metrics such as overall satisfaction, flight delays, service quality, and customer demographics through dynamic charts and filters.
- Integrated slicers and pivot tables to allow multi-dimensional analysis across various passenger segments and travel classes.

- Provided multiple dashboard templates for flexible reporting and stakeholder presentation.

ACHIEVEMENTS

- **Leetcode** Solved 180+ Questions
- **geeksforgeeks** Solved 50+ Questions