Muhammad Ahmad Amin

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GitHub | Leetcode   Portfolio Website

Skills

Programming Languages | Java, Python, JavaScript

Data Science | Python, NumPy, Pandas, Matplotlib, Seaborn

Frontend Development | HTML, CSS, JavaScript, React.js, TailwindCSS

Backend Development | Node.js, Express.js, Postman

Databases | MySQL (Relational Database/SQL), MongoDB (noSQL), Mongoose

Version Control System | Git, GitHub

Projects

O3Scope | Ozone Analysis, Visualization and Prediction Using Nasa Dataset

Hex App | GitHub

- Built an **interactive Hex app** visualizing global and city-level ozone trends (2012–2026) with risk zones.
- Developed **linear regression predictions for 2027 ozone levels** using Hex AI-assisted analysis.
- Processed **NASA OMPS HDF5 datasets** and created dynamic visualizations with Matplotlib & Cartopy.

Linracy | Full Stack MERN Social Media Platform

Live Demo | GitHub

- Built a responsive **full-stack** social media website where users can sign up, create profiles, upload photos, and explore other users.
- Implemented **authentication**, profile pages and **posts systems** using React.js, Node.js, Express, and MongoDB.
- Built a sleek, **responsive** user interface optimized for both desktop and mobile using modern frontend design practices.
- **Deployed** frontend on Netlify and backend on Render.

Education

BS Computer Science | National University of Sciences and Technology - NUST (2024 - 28)

FSC | Punjab Group of Colleges (2022 - 24)

Problem Solving

Solved 300+ Data Structures and Algorithms Problems on Leetcode and ranked in the top 3% globally among 15M+ users.

Leetcode Profile

Hackathons

Hex-a-thon | Built O3Scope, an interactive ozone data analysis, visualization and prediction tool using NASA datasets.

Achievements

Research Trainee | Science Talent Farming Scheme (STFS)

- Selected for a nationwide funded research program under PSF.
- Gained experience in scientific methodology and data analysis.