Alina Ali Nazim

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LeetCode: https://leetcode.com/u/alinaaaaaa____/

Skills Summary

Programming Languages: Java (Intermediate), Python, C++, JavaScript and SQL

Tools: Git, Postman, SQL Server, Linux (Basic), Virtual Environments(venv), Amazon Web Services (AWS) (Basic).

Core Skills: Data Structures and Algorithms (DSA), Full-Stack Development, DataAnalytics, REST API Development and Integration, Database Management, IoT Systems

Technical Skills: Machine Learning and Deep Learning, Data Science, Natural Language Processing, Predictive Modelling, Speech Processing, Chatbot Development, Cloud Deployment.

Frameworks & Libraries: React, Node.js, Express, MongoDB, PyTorch, Hugging Face Transformers(T5-base), OpenAI API, Scikit-learn, Pandas, NumPy

Soft Skills: Strategic Thinking, Logical Reasoning, Cross Team Collaboration and Leadership

Work Experience

Embedding Engineering Intern	**December 2024 – January 2025**
Kalam Labs	Lucknow, India

- Designed and implemented **embedded systems** with **microcontrollers**, **sensor integration**, and **real-time data processing**.
- Integrated a **Raspberry Pi** running a **Hugging Face LLM(T5-base)** chatbot into an **autonomous** aircraft prototype, enabling intelligent onboard communication.
- Utilized **Python, SSH,** and **Linux CLI** for **remote system control, debugging,** and **optimization** of embedded workflows.

Software Developer Intern	**December 2024 – February 2025**
Marg Software Solutions	Lucknow, India

- Managed **product and customer data** using **SQL Server** databases, ensuring accurate **RDBMS management** and efficient workflows.
- Designed and developed **ASP.NET Core web forms** for **customer and product management**, improving usability and data entry efficiency.
- Wrote optimized **SQL queries** for **data retrieval, validation, and reporting**, reducing manual processing and supporting reliable business operations.

Projects

Breezly-Health & Wellness| *React, Node.js, Express, MongoDB, JWT, REST APIs*   **June 2025 - July 2025**

- Developed a **full-stack web application for mental and physical health tracking**, with modules for **personalized user authentication**, **realistic flip-page journal logging**, **daily wellness tips**, **weekly mood tracking chart graph** and more.
- Built a **Node.js+ Express backend** with **REST API development** and **JWT-based authentication**, tested via **Postman** to ensure secure and personalized user access.
- Designed a **responsive, visually engaging UI/UX** using **React, JavaScript and CSS** with weekly mood chart graph and flip-page journal enabling **data visualization** and **boosting user engagement**.
- Implemented **scalable backend architecture** with **optimized API endpoints** and **MongoDB database integration** for storage of user profiles, journals, and wellness metrics.

Autonomous Flight Chatbot| *Python, Hugging Face T5, PyTorch, NLP, Raspberry Pi, Embedded Systems*   **December 2024-January 2025**

- Engineered a **Python-based AI chatbot** using **Hugging Face T5-base** and **PyTorch** for **real-time voice/text interaction**, fully compatible with Raspberry Pi for autonomous plane integration.
- Implemented **speech-to-text and text-to-speech pipelines**, enabling the system to **understand and respond intelligently to user queries.**
- **Deployed and managed code on Raspberry Pi via SSH and Linux commands**, ensuring **seamless remote integration** with the autonomous flight system.
- Optimized **for low-latency execution on embedded hardware**, enhancing **interactive control and autonomous system testing.**

Education

Vellore Institute of Technology	Bhopal, India
B. Tech (Computer Science and Engineering) – GPA: **8.1**	**2022 - Present**
City International School	Lucknow, India
Class XII (CBSE) – **93%**	**2020-2022**
Loreto Convent Intermediate College	Lucknow, India
Class X (ICSE) - **96%**	**2008-2020**

Certification

- Marketing Analytics- NPTEL (May 2025)
- Cloud Computing – NPTEL
- Generative AI with Large Language Models-Deep Learning AI,AWS
- Cloud Computing-AWS
- Machine Learning with Python-IBM
- Data Science-IBM

Achievements

- Successfully completed **a Teachnook Data Science training program**, gaining **hands-on experience** in **Python, Pandas, NumPy, data visualization, and machine learning for real world problem solving.**
- Awarded **Gold Medal** in **Science Olympiad** and **Bronze** in **General Knowledge Olympiad** for excellence in **analytical thinking** and problem-solving.
- Appointed **School Prefect**, showcasing **strong leadership, organizational acumen and collaborative skills**.