Kush K.

+91 9538049319 — Kushk41001@gmail.com — linkedin.com/in/kushk-4p1001

Professional Summary

Computer Science student passionate about software development, Gen AI, and backend systems. Experienced in Python, LLMs, and database management. Strong problem-solving and teamwork skills with expertise in Spring Boot, LangChain, and OpenCV.

Technical Skills

- **Programming:** Python, Java (OOPs, DSA)
- **Backend:** Spring Boot, SQL, MySQL
- **Web:** HTML, CSS, JavaScript
- **Gen AI:** LLMs, LangChain, AI automation
- **ML/AI:** OpenCV, OCR
- **Tools:** Git, Linux, Networking Basics

Work Experience

Project Intern — HCL Pvt Ltd *(2 months)*

- Worked on database management and query optimization.
- Developed and maintained SQL-based enterprise data solutions.

Projects

MCQ Generator (LangChain, Python, LLM - Ollama)

- Developed an AI-powered system that takes input files (PDF, DOCX) and generates multiple-choice questions (MCQs) using Large Language Models (LLMs).
- Integrated LangChain for prompt engineering and Ollama for efficient model inference.
- Designed a user-friendly interface for educators to customize MCQ difficulty and topics.

Parking Management System

- Automated number plate detection using OpenCV and OCR for efficient parking management.
- Designed a system to track vehicle entry and exit, reducing manual effort.

Smart IoT Trash Can

- Developed an intelligent IoT-enabled trash can with real-time monitoring and predictive analysis using **Rainforest Regression** to optimize waste collection schedules and prevent overflow incidents.
- Designed and implemented the hardware setup with **Arduino Uno** for precise real-time fill-level detection.
- Built a robust time-series prediction model for accurate fill-time estimation, enhancing collection efficiency.

Education

B.Tech in Computer Science
VIT Bhopal University *2022 – Ongoing*
CGPA: 8.34/10

Class XII
Kendriya Vidyalaya Sainik Vihar *2020*
Percentage: 89%

Class X
Kendriya Vidyalaya Sainik Vihar *2018*
Percentage: 83%

Certifications

- The Bits and Bytes of Computer Networking (Coursera) (Link)
- NPTEL Cloud Computing Certification
- NPTEL Marketing Analysis Certification
- C++ Programming Certificate (Simplilearn) (Link)

Achievements

- Secured 42nd place in Capture the Flag event by KYC.
- Core Member of Null Student Chapter (Event Management Team).
- 1st Place in 3x3 Rubik's Cube Solving Competition (55 sec).

Additional Information

- **Languages:** English, Hindi
- **Hobbies:** Solving Puzzles, Listening to Music
- **Teaching Experience:** Self-employed Math tutor for 2+ years.