

# Kush K.

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in linkedin

## 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 LangChain, LangGraph, and OpenCV.

## Technical Skills

- **Programming:** Python, Java (OOPs, DSA)
- **Backend:** SQL, MySQL
- **Gen AI:** LLMs, LangChain, LangGraph, AI automation
- **ML/AI:** OpenCV, OCR
- **Tools:** Git, Docker, AWS

## Work Experience

### Project Intern — HCLTech

Dec '24 – Jan '25

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

## Projects

### Parking Management System (*OpenCV, OCR*)

Mar '24 – Apr '24

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

### MCQ Generator (*LangChain, Python, LLM - Ollama*)

Oct '24 – Nov '24

- Developed an AI-powered system that takes input files (PDF, DOCX) and generates multiple-choice questions (MCQs) using 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.

### AdNova AI: Context-Aware Ad Recommender using LangGraph Agents

Ongoing

- Designed and built an AI-powered ad recommendation system using LangGraph and LangChain.
- Developed an LLM-based agent to analyze webpage content, extract semantic context, and classify it into ad categories.
- Retrieved the most relevant ad from a local database based on context.
- Implemented clean APIs using FastAPI to serve ad recommendations and log basic click analytics.

## Education

### B.Tech in Computer Science

2022 – Ongoing

VIT Bhopal University

CGPA: 8.21

### Class XII

2022

Kendriya Vidyalaya Sainik Vihar

Percentage: 89%

### Class X

2020

Kendriya Vidyalaya Sainik Vihar

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

- 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