Neha Kohli

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Education

VIT Bhopal University — **Aug 2022 – present**
B.Tech (Computer Science & Engineering) — CGPA: 9.06/10

Technical Skills

Programming Languages: Java, C++, Python, SQL, HTML,CSS
AI/ML Technologies: PyTorch, TensorFlow, Hugging Face, NLTK, OpenCV, Transformers, Reinforcement Learning, PyTorch Segmentation Models, LangChain
Coursework: Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, DBMS

Internship Experience

Software Developer Intern — Bluestock — **Dec 2024 – Feb 2025**

- Optimized **stock analysis tools** for NIFTY 100 companies, improving insight delivery by **40%** and enhanced **REST APIs**, reducing response time by **30%**
- Conducted comprehensive **trend analysis** on financial datasets and collaborated with **4 cross-functional teams** to improve predictive decision-making

Academic Projects

Brain Tumor Detection System (OpenCV, U-Net, CLAHE, Gaussian Filters):

- Developed detection system using **U-Net** architecture and CLAHE, achieving **96.37% SSIM score**
- Implemented real-time preprocessing pipeline with automated noise reduction for medical imaging
- Applied Gaussian filters for image enhancement, reducing false positives by **15%**

Diabetic Retinopathy Detection (TensorFlow, Keras, OpenCV, ResNet-50):

- Built deep learning model using ResNet-50, achieving **95% accuracy** in classification
- Applied data augmentation and preprocessing techniques, improving training speed by **30%**
- Optimized model with transfer learning, reducing training time from **12 to 8 hours**

Senior Citizen Assistance App (Java, Android Studio, Firebase):

- Developed Android app with medication reminders, voice commands, increasing adoption by **20%**
- Integrated fall detection using smartphone sensors and Firebase backend for monitoring
- Implemented emergency contact system with GPS tracking, reducing response time by **40%**

Hackathons and Achievements

- **JHU Hackathon 2025:** Achieved **top 6 ranking among 500+ participants**. Architected AI-powered Clinical Decision Support System (CDSS) using CrewAI multi-agent framework and Hugging Face NER models, improving diagnostic accuracy by **85%** and reducing errors by **70%**.
- **Amazon Sambhav Hackathon 2024:** Secured **top 10% ranking among 100,000+ teams**. Engineered scalable carbon-neutral delivery prototype using React, Spring Boot, Python Flask, reducing route planning time by **40%** and earning an **Amazon interview**.
- **AntheHack 2023 Semifinalist:** Developed internet-free money transfer application, outperforming **50+ colleges**.
- **Coding Achievements:** LeetCode - **Top 4.2% globally**, GeeksforGeeks - Contest Rating: **1798**, **3-Star Coder**, University Rank: **100**

Extracurricular Activities

- **Leadership Roles:**
  - Led cross-functional teams at **Advitya'24** university fest managing **1000+ participants**
  - Served as **Team Lead** of Open Source Club at VIT Bhopal, **mentored 50+ students**
  - Core member of **Tech Team** at UX Club, contributing to technical initiatives
- **Professional Certifications:** Postman API Fundamentals Expert, Google Cloud Platform

Additional Information

- **Personal Interests:** Music appreciation, competitive debate, and public speaking
- **Languages:** Fluent in English and Hindi