

# Nehal Khan

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## Education

- Amrita Vishwa Vidyapeetham, B.Tech.** 🔗 09/2022 – 08/2026  
Computer Science and Engineering with a current CGPA of 9.01.
- Notre Dame of Holy Cross School, Higher Secondary** 06/2020 – 06/2022  
Maths Computer science group with a percentage of 86%.

## Professional Experience

- Cognizance, Club Lead** 08/2023 – 08/2024
- Mentor in the Open Source domain and interested in the AI domain
  - Coordinated events like the **Green Hackathon 2024** promoting sustainability
  - Guided juniors through project development, ensuring hands-on experience with tools and technologies.

## Skills

- **Programming Languages:** Python, Java, C, C++, JavaScript, HTML5, CSS3, SQL
- **Data Analysis Tools:** NumPy, Pandas, TensorFlow
- **Development Tools:** GitHub, Figma, Visual Studio Code
- **Cloud Platforms:** Microsoft Azure
- **Databases:** MongoDB Compass, MySQL Workbench

## Projects

- AEyeD - Artificial Eye Decipher**, using Python, OpenCV, TensorFlow, Tesseract 🔗
- Developed a low-cost, AI-powered real-time monitoring system for **Face and Gesture Recognition, Vehicle and Stairs Detection, and Text Recognition** to enhance safety in constrained environments.
  - Optimized model performance to achieve **95% accuracy** in action detection and reduced costs by **70%** using efficient hardware and equipment.
- CodeZ**, using Python, Flask, MySQL, Azure MySQL Server 🔗
- Developed a free online platform integrated with **Microsoft Azure** for team project collaboration, supporting **resource sharing, version control, and real-time code editing**.
  - Designed and implemented security protocols, improving data protection by **20%**.
  - Optimized data storage techniques, reducing app size to **90MB**.
- Upgrade**, using Python, Flask, MongoDB, Azure Cosmos DB 🔗
- Developed a **personalized recommender system** using the **ML-KNN algorithm** to enhance students' learning experiences.
  - Provided tailored recommendations and strategies based on learning patterns and performance, achieving **90% accuracy**.

## Awards

- 3rd place - Hacktivate**, Amrita Vishwa Vidyapeetham, Chennai  
Secured 3rd place in the beginner's category during my first year.
- 3rd place - PALM LLM Website building**, Tantrotsav'24 - Amrita Vishwa Vidyapeetham, Chennai  
Developed a chatbot to assist in website development.
- 4th place - PyraHacks 2023**, Memphis Hack Club  
Acquired Echo 3D Business Plan, One Year Free Wolfram Alpha Pro, and EdTech Resource Bundle.

## **Certificates**

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### **Azure AI fundamentals**

Explored the fundamentals of Azure AI and NLP.

### **Research Paper Presentation in IC2ACM**

Presented a research paper on "CODEZ: A Place to Collab" at the International Conference on Intelligent Computing and Communication.

### **HackerRank Problem Solving Certification**

Completed multiple challenges in data structure algorithms and optimization techniques.

### **HackerRank SQL Certification**

Successfully solved SQL challenges covering advanced querying techniques