

Nehal Khan

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Education

B.Tech., Amrita Vishwa Vidyapeetham, Chennai ⓘ 09/2022 – Present
Computer Science and Engineering with a current CGPA of 8.99.

Higher Secondary, Notre Dame of Holy Cross School, Salem 06/2020 – 06/2022
Maths Computer science group with a percentage of 86%.

Skills

Programming Languages: Python, C, HTML5, CSS3, SQL

Tools and Frameworks: NumPy, Pandas, TensorFlow, OpenCV

Databases: MySQL Workbench, MongoDB Compass

Cloud Platforms: Microsoft Azure

Soft Skills: Team Management, Public Speaking, Critical Thinking, Group Discussion

Projects

AEyeD - Artificial Eye Decipher, 09/2023 – Present
Using Python, OpenCV, TensorFlow, Tesseract ⓘ

- Designed an affordable, AI-powered real-time monitoring system for Face and Gesture Recognition, Vehicle and Stairs Detection, and Text Recognition to enhance safety in restricted areas.
- Enhanced model performance to 95% accuracy for action detection and reduced costs by 80% by employing efficient hardware and equipment.

Upgrade, Using Python, Flask, MongoDB, Azure Cosmos DB ⓘ 10/2024 – 12/2024

- Developed a personalized recommender system using the ML-KNN algorithm to improve students' learning experiences.
- Offered customized recommendations and strategies based on learning patterns and performance, with 90% accuracy.

CodeZ, Using Python, Flask, MySQL, Azure MySQL Server ⓘ 09/2023 – 12/2023

- 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%.

Position

Club Lead, Cognizance Amrita 08/2024 – Present

- Guided 6 juniors during project development with hands-on exposure to industry-level tools and technologies, such as Git.
- Organized events and tech fests, such as the Green Hackathon 2024, that promoted innovation in sustainability with technology-based solutions and the Delta 2025 tech fest, which had over 90 student participants.
- Regularly contributed to open-source projects and allocated weekly tasks to over 30 juniors.

Awards

Best Paper Award, IIIT Kottayam 02/2025

Received the best paper award under the "Explainable and Responsible AI Solutions for Interdisciplinary Applications" track at ICITIIT'25

3rd place - PALM LLM Website building, Tantrotsav'24 02/2024

Developed a chatbot to assist in website development.

Azure AI fundamentals, Microsoft Azure services 04/2023

Explored the fundamentals of Azure AI and NLP.