

M MOHAMED MUJAHITH

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EDUCATION

B.S. Abdur Rahman Crescent University, Chennai, India
B.Tech Computer Science Engineering **GPA: 8.13**

June 2021 - August 2025

Raj Vidyalaya Metric Hr. Sec School, Mayiladuthurai, India
Higher Education (12th Class) **89%**

May 2020

SKILLS SUMMARY

Languages: Python, SQL, C++, JavaScript (Front-End)

AI & Machine Learning: OpenCV, YOLOv8, Google Gemini API, Scikit-Learn, Multi-Agent Systems

Frameworks: Flask, Pandas, NumPy, Matplotlib

Tools: Wireshark, Hashcat, Git/GitHub, MySQL, SQLite, VS Code

Soft Skills: Communication, Adaptability, Interpersonal Skills, Time Management

WORK EXPERIENCE

Cyber Security Intern | TecnoHacks

October 2023 - November 2023

- Utilized Hashcat to assess password strength by dehashing passwords, enhancing security measures and identifying vulnerabilities.
- Applied Wireshark to capture and analyze data packets, uncovering potential security threats and gaining valuable insights for network protection.
- Executed detailed security assessments and analysis, contributing to the development of more robust cybersecurity strategies and solutions.
- Collaborated with cybersecurity teams to improve threat detection processes, supporting effective incident response and resolution.

PROJECTS

UniNavigator | Intelligent Multi-Agent Student Assistant

November 2025 - Present

- System Architecture:** Architected a scalable **Multi-Agent System** utilizing **Google's Agent Development Kit (ADK)** and **Gemini API** to automate complex student productivity workflows.
- Intelligent Routing:** Designed and implemented an **Orchestrator Agent** to dynamically interpret and route user intents to **specialized sub-agents** (Calendar, Emotion, Planner) with **high context accuracy**.
- Full-Stack Implementation:** Developed a modular **Flask** interface featuring CLI, Web, and Visualizer modes, integrated with a **JSON-based state management** system for real-time mood tracking.

SignBridge | Real-Time Sign Language Detection System

February 2025 - April 2025

- Computer Vision:** Spearheaded the development of a real-time accessibility tool using **YOLOv8** and **OpenCV**, achieving **high-accuracy detection** for American (ASL) and Indian Sign Language (ISL).
- GenAI Integration:** Integrated a **Generative AI** layer to synthesize detected gestures into grammatically coherent sentences, significantly improving communication fluidity for non-verbal users.
- User Experience:** Built a user-centric web application with integrated **Text-to-Speech (TTS)** libraries, enabling seamless two-way interaction between signers and non-signers.

CERTIFICATES

- Programming in Python — *Infosys* (2024)
- Front-End Development — *IBM* (2024)