

Kulsoom Masood

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EDUCATION

ALIGARH MUSLIM UNIVERSITY
B.TECH (COMPUTER ENGINEERING)
Dec 2021 - Jun 2025 | Aligarh, India
CGPA: 8.538 / 10

ALIGARH MUSLIM UNIVERSITY
SENIOR SECONDARY SCHOOL (+2),
CLASS 12TH
2020 – 2021 | Aligarh, India
Percentage: 94/100

COURSEWORK

Operating Systems
Database Management System
Computer Networks
Data Structures and Algorithm
Object Oriented Programming
Information Security
Machine Learning
Software Engineering

SKILLS

PROGRAMMING

Languages:

- Python
- C/C++
- HTML/CSS
- Java
- Latex
- SQL

TECHNICAL

- Computer Vision
- Deep Learning
- Machine Learning
- Data Structure and Algorithms
- Object Oriented Programming

IOT

- Arduino
- RaspberryPi
- Jetson Nano
- Node Mcu

SOFT SKILLS

- Team leadership
- Quick learning
- Adaptability
- Problem-solving
- Effective time management

EXPERIENCE

IIIT HYDERABAD | SUMMER RESEARCH INTERN

Jun 2024 – Aug 2024 | Hyderabad, India

- Contributed to a project on using large language models for captioning traffic anomalies to enhance autonomous visual perception and driver safety at the Center of Visual Information Technology Lab under Prof. C.V. Jawahar.

CMERI-CSIR | SUMMER RESEARCH INTERN

Jun 2023 – Aug 2023 | West-Bengal, India

- Worked on detecting underwater docking station entrances through color extraction and size estimation, and developed a novel method for size estimation without reference objects.

PROJECTS

RAKSHA: YOUR AI POWERED GUARDIAN

Skills: AI, Computer Vision, Wearables, Mobile App, Encryption.

- Built an AI-powered safety system using wearables and a mobile app for real-time threat detection.

TRAFFIC-TECH: SMART SURVEILLANCE SYSTEM

Skills: Python, Flask, OpenCV, Jetson Nano, Deep Learning, Machine Learning

- Developed a Traffic Surveillance System to alert authorities of over-speeding vehicles through nameplate reading, color detection, and model recognition.

COMPANY KNOWLEDGE CHATBOT

Skills: Generative AI, RAG, Google Docs API, BigQuery, Vector Search, LLMs

- Built an AI-powered chatbot using RAG to answer queries from company documents by combining BigQuery, vector search, and LLMs for accurate, context-aware responses.

DYNAMIC DATA MANAGEMENT SYSTEM

Skills: Node.js, React, HTML, CSS, JavaScript, Data Visualization, Java, Git, SQL

- Built a scalable web app managing 2M+ records with dynamic tables (pagination, search, filters, CRUD) and an interactive dashboard with pie charts, ensuring optimized, modular, and performant code.

ACHIEVEMENTS AND WORKSHOPS

- Batch Topper in first semester (9.7 CPI).
- Placement Coordinator at ZHCET(AMU), Member of IEEE Club and Marine Technology Society.
- 2024 - 8th Summer School on Artificial Intelligence, IIIT-H: Attended a research training event covering AI fundamentals, machine learning, and computer vision, with lectures from leading academics and industry experts.

PUBLICATIONS

- [1] D. Singh, K. Masood, N. Jamshed, Y. Farooq, Y. Hasan, and H. Ahmad. Design and implementation of autonomous underwater vehicles' software stack. 2023 International Conference on Power, Instrumentation, Energy and Control (PIECON), pages 1–5, 2023.