

MOHAMMED MAHROZ UDDIN HAMZA

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EDUCATION

Muffakham Jah College of Engineering & Technology (MJCET), Osmania University	2021 - 2025
<i>Bachelor of Engineering (B.E.), Information Technology</i>	<i>CGPA: 8.81 – First Class with Distinction</i>
Narayana Junior College	2019 - 2021
<i>Class XII, MPC</i>	<i>98.4% – First Class (State Rank)</i>
Ravindra Bharathi School	2007 - 2019
<i>Class X</i>	<i>CGPA: 9.0 – First Class</i>

ACADEMIC ACHIEVEMENTS

- TG PGECET Rank: Secured a rank of 154 in the Telangana Post Graduate Engineering Common Entrance Test (2025).

WORK EXPERIENCE & INTERNSHIPS

C-DAC, Hyderabad	2025
<i>Web Technology Intern</i>	
• Built AI model-serving APIs in a microservices-style architecture using Flask and Django, integrating ML models. • Developed a Flask-based Text-to-Speech module for on-premise, multi-language speech synthesis using FastSpeech2, an Indic TTS model supporting 18 Indian languages. • Engineered a Django REST API for automated speech recognition and transcription of English-language videos for subtitle generation, using Celery and Redis for asynchronous, long-running job processing. • Researched and evaluated ML model architectures, including the CPU-optimized Whisper.cpp, based on performance and deployment constraints; gained hands-on experience in Linux/Ubuntu and Postman API-testing.	

SKILLS

- Programming & Web: Python, Flask, Django, REST APIs / Microservices
- AI & ML: ML Model Integration, Text to Speech models (FastSpeech2), Speech Recognition models (Whisper.cpp), Explainable AI (LIME) framework
- Infrastructure & Data: Celery, Redis, MySQL, FFmpeg, PDF Text Extraction, API Design, System Architecture
- Tools & Environment: Git, GitHub, Postman, Jupyter Notebooks, Conda, Linux/Ubuntu, VS Code
- AI Coding Tools: Claude Code, VS Code agents, Cursor IDE

PROJECTS

AI-Powered Multi-Modal Content Moderation System	<i>Final Year Project 2025</i>
• Architected a Flask-based multi-modal content moderation system integrating RoBERTa, OpenAI CLIP, and Whisper models with LIME for explainable AI transparency and justifications.	
Palm-Powered Course Generator	<i>Hackathon Project 2024</i>
• Developed an intelligent LLM-based Flask platform to generate online learning courses, and detailed chapters using LLMs from simple user input. • Gained widespread adoption and recognition on GitHub, earning 22 stars and 12 forks from developers worldwide.	

CERTIFICATIONS

Qualcomm Academy	2026
• Technical Foundations in Machine Learning Operations, GenAI	
Centre for Development of Advanced Computing	2025
• Web Development in Python (WBL Level-1) – C-DAC Hyderabad	
HackerRank	2025
• Skill Assessment Certification in Problem Solving from HackerRank	
Wipro TalentNext Java Full Stack	2024
• Covered core Java (OOP, Collections, Exception Handling), Spring Boot fundamentals, as part of Wipro's industry-aligned training program	

EXTRA-CURRICULAR ACTIVITIES

- Sports: Football, cricket, and swimming, fostering teamwork and sportsmanship
- Technical Competitions: Participated in Hackathons (Hack Revolution MJCET, Datathon MJCET)
- Building Problem Solving and rapid-prototyping skills