AKIF JAWAID

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WORK EXPERIENCE

Lecturer - IT

MANUU Polytechnic College,Hyderabad | August 2025 – Present

- Teaching core diploma-level subjects including DBMS, Computer Networks, and Advanced Networking
- Conducting theory and laboratory sessions for 1st, 2nd, and 3rd-year students
- Delivered instruction to 60+ students per semester, focusing on practical implementation and concept clarity
- Guided students in IoT mini-projects, programming labs, networking simulations, and database design
- Performed hands-on demonstrations on sensor integration, microcontrollers, and networking tools
- Updated academic content aligned with industry standards and emerging technologies

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EDUCATION

Bachelor of Technology (Computer Science) 2020-2024 | CGPA: 8.21
Maulana Azad National Urdu University, Hyderabad

Diploma in Information Technology | 2017-2020 | CGPA: 9.12
Maulana Azad National Urdu University, Hyderabad

SKILLS

Programming Languages: C, C++, Python
Backend & Integration: Node.js, REST APIs, JSON
Databases: MySQL, MongoDB
Operating Systems: Linux (Ubuntu), Windows
Tools & Platforms: Git, GitHub, Arduino IDE, VS Code, AWS (Basic)
Core Concepts: Data Structures & Algorithms, Object-Oriented Programming (OOPs), Linux Commands, Version Control, Computer Networks, DBMS

PROJECTS

SMART GRAIN MANAGEMENT SYSTEM (IOT) – NATIONAL AWARD WINNER

- Designed an IoT-based grain monitoring system using 6+ sensors (temperature, humidity, smoke, moisture, ultrasonic)
- Implemented real-time environmental monitoring with periodic sensor data updates
- Automated fan and water pump control based on threshold conditions
- Reduced manual inspection effort by ~70%
- Integrated NodeMCU (Wi-Fi) to transmit sensor data to a web-based dashboard
- Improved grain safety through early fire, heat, and moisture detection
- Enabled remote monitoring for timely decision-making
- Technologies: Arduino Uno, NodeMCU, Sensors, REST APIs, MQTT (Basic), IoT Architecture

RASPBERRY PI–BASED MINI COMPUTER

- Built a functional mini computer using Raspberry Pi and 5+ hardware components
- Installed and configured Linux OS, peripherals, and basic system services
- Achieved 40–50% cost reduction compared to traditional desktop systems
- Demonstrated system at university technical fest among 20+ competing teams

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AWARDS

AICTE CHHATRA VISHWAKARMA AWARD – 1ST PRIZE (NATIONAL LEVEL), 2019

- Awarded by AICTE, Ministry of HRD, Government of India for an innovative IoT solution

1ST PRIZE – UNIVERSITY TECHNICAL FEST, 2018

- Raspberry Pi–Based Mini Computer Project