

MOHAMED HUSSIAN S

FINAL YEAR STUDENT | FRESHER

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Objective

Motivated Electronics and Communication Engineering student with strong interest in AI, embedded systems, and problem solving. Seeking an entry-level role where I can apply my technical and analytical skills to build innovative real-world solutions.

Education

SETHU INSTITUTE OF TECHNOLOGY, VIRUDHUNAGAR – ANNA UNIVERSITY	2023-2027
B.E., ELECTRONICS AND COMMUNICATION ENGINEERING	8 CGPA
HIGHER SECONDARY (12 TH) TN BOARD – TUNSVN HR SEC SCHOOL, TIRUCHULI	2021-2023
PCMB – BIOLOGY, MATHEMATICS	74.14%

PROJECTS

- **AI BASED RESOURCE ALLOCATION IN 6G NETWORKS**

Developed a DQN-based intelligent resource allocation system that dynamically optimizes subcarrier assignment, transmit power, and beamforming based on channel conditions and QoS requirements. The system focuses on improving throughput, fairness, latency, and energy efficiency, achieving 35% higher fairness compared with conventional scheduling methods.

- **The Saffron Kitchen – AI-Powered Restaurant Management & Ordering System:**

Developed a responsive restaurant management and online food-ordering web application using React and TypeScript, integrated with Google Gemini AI for personalized dish recommendations. Implemented menu browsing, cart and checkout, order tracking, table reservations, customer reviews, career applications, user-role-based access, and an admin dashboard for managing orders, inventory, categories, reviews, careers, and reservations.

- **Smart Helmet – IoT Safety System:**

developed an IoT-based smart helmet for rider safety using NodeMCU ESP8266, alcohol and vibration sensors, GPS, and GSM communication. Implemented alcohol detection and accident detection, with GPS-based location tracking and SMS emergency alerts to enable rapid assistance during accidents.

SKILLS

- PROGRAMMING LANGUAGES: Python, C, Java, Verilog HDL
- TOOLS: Tinker CAD, Arduino IDE, Xilinx IDE, EDA Playground, Vs Code, MATLAB
- CORE SKILLS: Digital Electronics, Analog Electronics, Circuit Theory
- SOFT SKILLS: Problem Solving, Team Work, Leadership
- AI/ML: Google Gemini API, Deep Reinforcement Learning, DQN

CERTIFICATION

- Introduction to Industry 4.0 and Industrial Internet of Things – NPTEL, IIT Kharagpur
- Python for Data Science – IBM Cognitive Class
- Introduction of Internet of Things - NPTEL, IIT Kharagpur Elite + Silver
- Multi-Paradigm Programming with Modern C++ - INFOSYS SPRINGBOARD
- JAVA PROGRAMMING – CODECHEF