Zannatul Naim

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About

A motivated electronics and telecommunications engineering graduate with a strong interest in the IT sector. Experienced in academic electronics projects and image processing research through my undergraduate thesis. I bring solid problem-solving skills, clear communication, and a collaborative mindset, and I'm eager to apply my technical knowledge in practical, team-driven environments.

Education

BSc. in Electronics & Telecommunication Enginnering (ETE)
- Rajshahi University of Engineering & Technology (RUET) | 2020-2025

HSC
- Govt. Debendra College, Manikganj | 2019 | GPA: 5.00/5.00

SSC
- S. K. Govt. Girls' High School, Manikganj | 2017 | GPA: 5.00/5.00

Projects

Smart Alcohol Detection & Alert System (IoT-Based) GitHub
- Developed an IoT-based system to detect alcohol levels and enhance road safety. The system stops a motor upon detection, logs location data, and sends real-time alerts via ThingSpeak and IFTTT—addressing drunk driving through sensor-based detection and wireless automation.
- Tools used:ESP8266 (NodeMCU), MQ3 Gas Sensor, GPS Module, LCD Display, ThingSpeak, IFTTT.

A GAN (Generative Adversarial Network)-Based Framework for Multi-Class Skin Disease Classification GitHub
- Built a GAN-based model to classify skin diseases using the HAM10000 dataset. Generated synthetic images to augment training data and improve classification accuracy, supporting better diagnostic insights for dermatology. Achieved 98.25% accuracy.
- Tools used: Python, OpenCV, Matplotlib, TensorFlow, Kaggle, HAM10000

Microcontroller Based Alcohol Detection Alert & Car Engine Blocking System GitHub
- Designed a safety system using ATmega328P and MQ-3 sensor to detect alcohol from the driver's breath. It alerts passengers and automatically blocks the engine, resuming only when no alcohol is detected.
- Tools Used: ATmega328P, MQ-3 Sensor, LCD Display, L293D Driver IC, DC Motor

Technical Skills

- **Programming Languages:** Python, HTML, CSS, C and MatLab.
- **Libraries & Frameworks:** Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn, Keras, OpenCV, GAN, TensorFlow.
- **Version Control & Database:** Git & Github.
- **Microcontroller & Embedded Systems:** Arduino, Actuators, ATmega328P, NodeMCU (ESP8266), Sensors, ThingSpeak, IFTTT, Arduino IDE.
- **Other Tools:** Google Colab, Kaggle, Jupyter Notebook, LaTeX, MS Office, PCB Design(EasyEDA), Proteus, Microwind, DSCH2, eNSP.

Awards & Certifications

- Programming for Everybody (Getting Started with Python)**-Coursera** Credential