THANUSH PRIYAN R

Final Year B.Tech Student – AI & Data Science

Pattukkottai, Tamil Nadu, India

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PROFESSIONAL SUMMARY

I'm a final-year B.Tech student majoring in Artificial Intelligence and Data Science. I have a solid understanding of machine learning, data analytics, and software development. I enjoy using AI to solve real-world problems and have hands-on experience working with Python, data visualization tools, and building machine learning models. I'm enthusiastic about joining innovative teams where I can apply my skills and grow in the tech industry.

SKILLS

Programming (Python, java), Problem-Solving, SQL & Data Handling , Database Management (SQL, NoSQL), Data Visualization (Matplotlib, Power BI), Data Analysis (Python, SQL), Machine Learning (supervised, unsupervised learning), Project Development with Streamlit UI, IoT Integration (ESP32, Sensors, GSM, GPS), Hardware Debugging with Arduino & STM32

EDUCATION

B.Tech – Artificial Intelligence and Data Science
CARE College of Engineering, Tiruchirappalli, Tamil Nadu

CGPA: 7.33
Nov 2022 – Present

Higher Secondary Education (HSC)
Brindhavan Higher Secondary School, Pattukkottai, Tamil Nadu

May 2022

Secondary School Leaving Certificate (SSLC)
Brindhavan Higher Secondary School, Pattukkottai, Tamil Nadu

Mar 2020

PROJECTS

Women's Safety Watch

Technologies: ESP32, MAX30102, MPU6050, GPS, Twilio, Streamlit
Designed a wearable device to detect abnormal vitals or motion, sending real-time alerts with live GPS location to emergency contacts via GSM module. Integrated with a Streamlit UI for monitoring.

Face Recognition Attendance System

Technologies: OpenCV, Python, Streamlit
Built a real-time face recognition system to automatically mark attendance. Unknown faces are logged, and a UI built with Streamlit allows admin control, data training, and attendance tracking with timestamps.

Wi-Fi Password Cracker Simulation

Technologies: Streamlit, Aircrack-ng, Python
Simulated a WPA/WPA2 dictionary attack using Aircrack-ng suite via a Streamlit interface. Designed for educational/demo purposes to demonstrate cybersecurity principles and ethical hacking scenarios.

IoT-based LPG Gas Leakage Detection System

Technologies: ESP32, GSM Module, Servo Motor, Gas Sensor

Designed an embedded system to detect gas leaks and automatically turn off gas valves. Integrated GSM alerts and safety servo motor cutoff using fan power, making it ideal for home safety automation.

TFT Display & Sensor Interfacing with STM32 and Arduino

Technologies: STM32H723, MCUFRIEND_kbv, Adafruit_GFX, Arduino IDE
Worked on low-level hardware interfacing and display logic using 8-bit TFTs and custom pin configuration. Debugged communication protocols using STM32CubeIDE and Arduino serial monitors.

ADDITIONAL ACHIEVEMENTS & CERTIFICATIONS

Workshop Organizer

- *API Integration with Gemini AI & Low-Code Development*

- *Data Science and Zoho Creator*

Coding Engagement:

- Active coder on **HackerRank**, regularly solving challenges in Python, SQL, and problem-solving domains

Workshop Participant:

- *Mastering Fuzzy Logic in Real-World Applications*

- *Mobile App Development with Android Studio*

Learning Platforms:

- Continuous learner on **Coursera**, **Great Learning**, and **YouTube Dev Channels** for full-stack and AI topics

LANGUAGES

English, Tamil

HOBBIES

Passionate about AI projects, organizing tech and sports events, playing volleyball, exploring IoT innovations, and engaging in strategic games to enhance problem-solving skills.