Meghana Pallapothu

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SKILLS

- **Languages:** Python, JavaScript, C, R
- **Web Development:** HTML5, CSS3, React
- **Databases:** MongoDB, SQL (queries, joins, indexing)
- **Tools Platforms:** Git (version control), VSCode, Streamlit
- **Concepts:** Machine Learning, RAG (Retrieval-Augmented Generation)

EDUCATION

- **Bachelor of Technology** *2022–2026*
  Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada
  Major: Computer Science and Engineering CGPA: 8.81/10

- **Intermediate** *2020–2022*
  Sri Chaitanya Junior College Score: 982/1000

- **SSC** *2019–2020*
  Sri Chaitanya Techno School Score: 592/600

EXPERIENCE

Infosys Springboard *Dec 2024 – Feb 2025*
AI Intern (Remote)

- Built a medical chatbot using **Retrieval-Augmented Generation (RAG)** to provide real-time answers across multiple data sources (PDFs, URLs, uploads).
- Integrated **Groq API** and **LLaMA models**, improving latency by 30% and accuracy by 20% over baseline.
- Designed and deployed a user-friendly **Streamlit UI**, achieving a 4.6/5 user rating in usability testing.
- Used version control (Git) to manage iterative team-based development with weekly Agile sprints.

PROJECTS

- **Snort-Based Web Application Firewall** *2024–Present*
  Developing a Python-based Web Application Firewall using Snort 3.x to detect and block SQLi and XSS attacks. Building custom Snort rules and a proxy agent for traffic inspection. Implementing real-time alert logging to a Flask dashboard for threat visualization.
  Technologies: Snort 3, Python, Flask, Proxy, IDS/IPS, Network Security

- **IoT Vehicle Door Safety Monitoring and Alert System**
  Built a real-time Raspberry Pi-based safety system using ultrasonic sensors, achieving 85% accuracy in detecting approaching vehicles with ¡500ms alert time.
  Technologies: Raspberry Pi, Python, IoT sensors, GPIO programming

- **Virtual Study Room Management Web App**
  Developed a full-stack app allowing users to create and join study rooms by topic. Added room capacity checks, live request notifications, and session validation.
  Technologies: Node.js, Express, React, MongoDB

- **Smart Crop Price Predictor**
  Created an ML-powered platform using RandomForestRegressor to forecast crop prices based on crop, region, and season data. Integrated React frontend, Express backend, and Flask ML server with historical storage

in MongoDB.
Technologies: React, Flask, MongoDB, Python, scikit-learn, pandas, REST APIs

ACHIEVEMENTS

- 6$^{\text{th}}$ place among 200+ teams at **BITS TechXcelerate Hackathon**
- Earned **50-Day Coding Streak Badge** for consistent algorithm practice
- Elected as school representative for two consecutive years for leadership and discipline

VOLUNTEERING

- **Technical Lead**, AI Autonomous Hackathon — Oversaw problem statement design, team mentorship, and event execution at VRSEC.
- Participated in **MERN Stack Workshop** at BITS Pilani, Hyderabad.
- Contributed **100+ hours** of community service via **National Service Scheme (NSS)** initiatives.

CERTIFICATIONS

- **Cisco Networking Academy:** CCNAv7 – Introduction to Networks
- **NPTEL:** Social Networks
- **NPTEL:** Foundations of R Software
- **Infosys Springboard:** Java Programming Fundamentals