Namana Venkata Sai Prabhash

Bachelor of Technology in CSE (AI ML)
Aditya Institute of Technology and Management, Tekkali, Srikakulam

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Internship Experience

- **Machine Learning Toolbox Matlab | Qualivon Technologies** *May 2024*

Advanced Human Tracking System Through Walls Utilizing the Power of Wi-Fi.

Focused on using Wi-Fi Channel State Information (CSI) and ML Toolbox in MATLAB to detect and track human presence through walls. The work included simulating RCNN models for human detection, presenting a low-cost, nonintrusive solution for security, surveillance, and emergency response scenarios. This project involved substantial technical experimentation, data analysis, and innovation to enhance the accuracy and reliability of indoor human tracking using existing Wi-Fi infrastructure.

- **Google AI-ML Virtual Intrenship | AICTE, EduSkills supported by Google for Developers** *Apr -Jun 2024*

Gained hands-on experience developing machine learning models using Scikit-Learn Framework.

Technical Skills

Programming Languages : Python, C, C++, Java

Frameworks : TensorFlow, PyTorch, Scikit-learn, Keras, OpenCV

AI and Machine Learning : Natural Language Processing, Computer Vision, LLM, Prompt Engineering

Tools : Github, Git, Power BI, Excel

Database : MySQL

Operating Systems : Windows, Android

Projects

- **Crook Detection System** *May 2023 – Jul 2023*

This project involved training a machine learning model using deep learning to continuously process and analyse video feeds from a cash counter camera in realtime with computer vision techniques. The model was designed to detect suspicious activity, such as someone reaching behind the counter or making unusual hand movements that could indicate potential theft and generate alerts to administrators mobile this AI-driven surveillance system achieved an accuracy rate of 86 percent. To minimize false alarms, It is integrated with facial recognition into the system. This allowed the system to differentiate between known customers, like store employees or regular patrons, and unknown individuals.

- **Human Detection And Tracking Through Walls Using Wifi** *Dec 2024 – Jun 2025*

Designed and developed a non intrusive system that detect and track human presence through walls using Wi-Fi Channel State Information (CSI) and PyTorch-based machine learning. Using RCNN models with LSTM, it analyzes Wi-Fi signals to identify movements and also estimates poses. The low-cost solution enhances security, surveillance, and emergency response applications. By leveraging existing Wi-Fi infrastructure, it achieves reliable indoor human tracking without line-of-sight. The system minimizes false positives through advanced signal processing, ensuring robust performance in diverse environments, reducing reliance on invasive monitoring systems.

Certifications

- **Java Full Stack** | Wipro *May - Sep 2024*
- **ML Foundations** | AWS Academy *June 2023*

Education

- **Aditya Institute Of Technology And Management, Tekkali** *2022 - 2025*
  B.Tech in Computer science Artificial Intelligence And Machine Learning — CGPA: 8.1
- **Government Polytechnic College, Vijayawada** *2019 - 2022*
  Diploma In Electrical and Electronics Engineering — Percentage: 80%
- **Ravindra Bharathi School, Pathapatnam** *2016 - 2019*
  Secondary Education — CGPA: 9.8

Co-Curricular Activities

- Participated in **Prompt Engineering** and **Building LLM's** Workshops conducted by **DeepLearning.AI**, led by renowned AI expert **Andrew Ng**.
- Developed various **Generative AI** projects and **automation** tools to streamline repetitive tasks using *LLMs* and **prompt engineering** techniques.
- Secured **first place** in the **Robo Chase competition** at **ASPIRE 2K23**, a national-level technical fest.
- Developed offline voice assistants for smart home automation systems using **Natural Language Processing (NLP)** and **speech recognition**, enabling secure, internet-independent control of home devices.