Syed Irfan M

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LinkedIn Profile GitHub Profile

EDUCATION

B.Tech in Computer Science and Engineering (AIML) **2023 – 2027**
SRM Institute of Science and Technology, Trichy CGPA: 7.81 (Upto 4th Sem)

TECHNICAL SKILLS

Languages: Python, C, C++, Java

Machine Learning & DS: TensorFlow, Keras, CNN, LSTM, Scikit-learn, NumPy, Pandas

Web Development: HTML, CSS, React

Databases: MySQL, SQLite

Core Concepts: Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP)

Tools: Gradio, MediaPipe, Whisper ASR, Firebase

INTERNSHIP EXPERIENCE

Machine Learning Virtual Internship Jun 2025 – July 2025
Company: APPROTECH
- Gained practical experience in Machine Learning workflows and application development.

PROJECTS

Nagarvaani: Tamil AI Communication Ecosystem [View on GitHub]
Tech Stack: Python, NLP, Whisper ASR, Gradio, SQLite
- Developed a cohesive AI framework featuring a Tamil Chatbot, Voicebot, and Civic Complaint Management System.
- Implemented Whisper ASR for speech-to-text and NLP rules for automated complaint classification (water, road, etc.).
- Designed a responsive Gradio UI for seamless human-AI interaction in regional governance support.

AgriConnect: Agricultural Supply Chain Platform [View on GitHub]
Tech Stack: Python, Streamlit, Firebase
- Built a real-time digital platform to resolve inefficiencies in the agricultural supply chain using a decision engine.
- Implemented multi-factor filtering (Crop, Price, Urgency Rules) to match farmers with buyers and experts instantly.
- Integrated Firebase for real-time data synchronization between multiple stakeholders.

Sign Language to Text Conversion [View on GitHub]
Tech Stack: Python, MediaPipe, Random Forest, OpenCV
- Engineered a real-time system converting static ASL alphabets and digits into text using computer vision.
- Utilized MediaPipe for extracting 21 hand-landmark coordinates and a Random Forest Classifier for gesture recognition.
- Designed for low-latency performance using standard webcams without specialized hardware.

Network Intrusion Detection System (NIDS)
Tech Stack: Python, CNN, LSTM, TensorFlow, SMOTE
- Built a deep learning model to detect malicious network activities (DoS, Probe, R2L) using the NSL-KDD dataset.
- Addressed class imbalance using SMOTE and ADASYN oversampling techniques to improve minority class detection.
- Developed hybrid architectures (CNN & LSTM) to learn spatial and temporal patterns of network traffic.

CERTIFICATIONS

- **Introduction to Java** – LearnQuest (Coursera)
- **Intro to Generative AI: A Beginner's Primer on Core Concepts** – Google Cloud
- **Responsible AI: Applying AI Principles with Google Cloud** – Google Cloud
- **AI Infrastructure and Operations Fundamentals** – NVIDIA
- **Introduction to Large Language Models** – Google Cloud
- **Database Structures and Management with MySQL** – Meta
- **Fundamentals of Sensors** – Indian Institute of Science (IISc)
- **Introduction to Networking** – NVIDIA
- **Datascience and Analytics** – HP Life
- **GenAI Powered Data Analytics Job Simulation** – TATA Forage
- **Generative AI for All** – Infosys

- **Hybrid Cloud Infrastructure Foundations with Anthos** – Google Cloud
- **Introduction to Google Cloud Platform** – Simplilearn Skillup
- **Workshop on Information Modelling** – KHAAS PROlearn Academy

HACKATHONS & CONFERENCES

- BIT V-PRAYUKTI'25-AIML hackathon (national level)
- YUVA Hackathon (AI and LangTech sector) – SRMIST
- AICTE-VAANI on Modern Tamil Computing Summit 2025