

SHAHIRUN

AIML DEVELOPER



CONTACT

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SKILLS

- Python
- Machine Learning
- Deep Learning
- LLM
- Gen-AI
- AI Agents
- Research Skills
- Leadership
- Project Management

ACHIEVEMENTS

- 1st and 2nd position in National level Symposium SIMATS '24
02/2024
- 3rd position in 13th International Project Competition and Exhibition
VISAI 2024
02/2024
- Semi-Finalists in Smart India Hackathon'24 – Ministry of Education
11/2024

PROFILE

- An innovative Software Engineer with a strong foundation in Artificial Intelligence, Machine Learning, and Deep Learning. Passionate about exploring and contributing to cutting-edge research projects, driving innovation through data-driven solutions. Adept at team management and leadership, fostering collaboration and competitive excellence to achieve project goals. Committed to continuous learning and staying at the forefront of technology to deliver impactful results in challenging environments.

EXPERIENCE

- RAN Global Auto Engineering Pvt. Ltd. — Process Data Automation Intern**
November 2025 - January 2026
 - Contributed to the design and deployment of automation tools within the Process Data Automation Department, focusing on integrating AI and data-driven solutions into existing workflows.
 - Developed an Automated Inventory Management System using QR code technology, improving material tracking and process transparency.
 - Designed and implemented an AI-based Production Planning and Control Model, utilizing predictive analytics to enhance production efficiency and resource allocation.

PROJECTS

- Conversational AI for Personalized Food Discovery: A RAG-Based Approach using a Large Language Model and Streamlit**
 - This software model leverages a Large Language Model (LLM) to create an intelligent conversational agent for restaurant discovery. It employs a Retrieval-Augmented Generation (RAG) architecture, using a custom dataset of Chennai restaurants to provide factually-grounded, personalized, and context-aware recommendations through an interactive Streamlit web interface.
08/2025 - 09/2025
- Cortex Sense: Neuroadaptive Learning Assistant**
 - A web-based platform that uses a lightweight, in-browser AI to classify simulated EEG data and trigger real-time adaptive content interventions.
07/2025 - 08/2025
- Project Vāyu: Interactive NLP Analysis of Public Discourse**
 - A Python-based interactive dashboard using NLP and Streamlit to analyze and visualize sentiment, topics, and categories from a large dataset of news headlines.
07/2025 - 08/2025
- Deep Learning-Based Spectral-Spatial Analysis of Hyperspectral Data for Crop and Land Cover Classification**
 - Designed and implemented deep learning models (3D CNNs) for classifying hyperspectral data from multiple sources (Salinas, PURR, and Pavia datasets).
02/2025 - 03/2025

- Runner up in Regalia, BITS Quarks
BITS Pilani - Goa Campus
02/2025

- 1st and 2nd position in Mindspark'25
REC Chennai
02/2025

- 2nd position in DevXPRO'24 at
SEC Chennai
02/2024

- 2nd position in TANTRAZ'25 at
VTU Chennai
02/2025

LANGUAGES

- English (Fluent)
- Hindi (Fluent)
- German A1
- French A1

- **Advanced DL and XAI for Sentence Level Translation Long Format Sign Language Videos into Natural Audio Narratives**
 - A real-time text and speech translation system from British Sign Language to fill the gap between the deaf and hard-of-hearing community.
03/2025 - 05/2025
- **Organic and Recyclable Material Classification using Deep Learning: A CNN-Based Approach with Entropy Loss for Enhanced Accuracy**
 - The software model uses image segmentation and deep learning algorithms to detect the type of waste i.e. organic waste and recyclable waste.
08/2024 - 10/2024
- **Real-Time Fraud Detection Chatbot using Liquid Neural Networks**
 - A chatbot-powered fraud detection system that leverages Liquid Neural Networks (LNN) for real-time prediction of fraudulent transactions.
12/2024 - 01/2025

EDUCATION

- **Bachelors of Technology in Computer Science and Engineering**
Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Chennai, India. 2022 - 2026
GPA: 8.5 / 10
- **XI-XII Higher Secondary Education** 2020 - 2022
St. Thomas School
Shimla, India.
Percentile: 91/100

LEADERSHIP AND MANAGEMENT

Event Organizer :

- **SUSTAIN-ATHON'24**
Technical ideathon on the SDG and environmental theme in the Department of AIDS.
SOC - VTU

- **VISAI'25**
2 Day event host at 13th International Project Competition and Exhibition
VTU

Team Lead and Mentor:

- **Smart India Hackathon'24,**
Ministry of Education
- **Innovators Conclave'25.**
Hyderabad, Telengana

PROJECT APPROVAL - PUBLICATION

- **Modular Solar Refrigeration System for Vaccine Storage Case Study - Kottampati TN, India.**

EPICS IN IEEE '2025

A renewable energy-powered cold chain solution integrating solar panels, battery backup, phase change materials, and IoT monitoring to ensure WHO-compliant vaccine preservation in underserved communities.

08/2025 - 05/2026