

# Athisundararaj S

+91 8825833434

athisundararajai@gmail.com

LinkedIn/Athisundararaj

Github/Athisundararaj

## EDUCATION

BANNARI AMMAN INSTITUTE OF TECHNOLOGY

Aug 2024 - Apr 2026

Bachelor of Technology in Artificial Intelligence and Data Science | CGPA:8.72

Erode, TamilNadu

- **Python Trainer** (Dec2024 - Present) - Trained fundamentals of python programming for 60 students
- **ML and Jetson Trainer** (Aug2023 - Sep2023) - Trained students on **deployment of ML application on Jetson Nano**

## EXPERIENCES

Xyloite Solutions

Oct 2024 – Dec 2024

AI Intern

Remote

- **Created zone maps and heatmaps generation** modules of player movements using **Python** for detailed analytics.
- Backend development using python for **seamless inference of multiple streams**, real-time monitoring of player metrics.

Codessia Trade Fair Complex – Intec and Agri-Intex 2024

May2024 – Jul2024

Surveillance Technician

Coimbatore (Onsite)

- Developed a **custom pipeline in Python** for people counting, enabling efficient data collection and **integration with DeepStream SDK**.
- Automated daily reporting with detailed insights via WhatsApp and a live dashboard update.

## SKILLS

Language: Python

Technologies: Machine Learning, Deep Learning, NLP, Generative AI

Tools: Pytorch, Gen AI Tools, Llama-cpp, Deepstream SDK, Docker, Django

Area of Interest: Artificial Intelligence

Applied Mathematics: Probability and Statistics, Matrix operations, Dimensionality reduction, Vector calculus

## PROJECTS

LYRA AI - ENGLISH TUTOR | LLM, Django |

[Github](#)

- Intelligent assistant to enhance reading, listening, and spoken English skills **utilizing LangChain for LLM** implementation.
- Backend development using Django framework and memory handling and **session management for multiple users** were handled.

VIDHYAGPT - BILINGUAL LEARNING ASSISTANT | Llama-cpp, Whisper AI (ASR) |

[Github](#)

- Chat assistant with real-time **speech-to-speech conversion in English and Hindi**, ensuring an **accuracy rate of 86%**.
- Developed an **ASR pipeline** using Whisper AI model for english to Hindi conversion and vice versa and handled **prompt fine tuning of base llm model**.

ETTA - THE MEDICAL ASSISTANT | NLP, RAG, Llama-cpp |

[Github](#)

- Medical assistance to **analyze medical documents** and provided accurate insights with **precision 77%**.
- **Led a team** of three members and developed a **chat LLM chain** and integrated with **Retrieval Augmented Generated**.

## ACHIEVEMENTS

1. SMART INDIA HACKATHON 2023 - WINNERS

[Certificate](#)

- Secured **first place among 52,000 entries** by developing a wearable device (prototype) to counteract tinnitus.
- Developed a **machine learning model** for personalized tinnitus therapy, predicting optimal frequency based on stress and heart rate data and achieving **89% accuracy**.

2. BITHACKS 2023 - WINNERS

[Certificate](#)

- **Competed 680 teams** in the software edition of the hackathon implementing **Indian Number Plate Recognition**.
- Converted detection **models to TensorRT engines** using TAO Toolkit, **integrated RTSP for live streams**, and optimized for low-latency inference.

## CERTIFICATIONS

1. Getting Started with Artificial Intelligence [IBM] ([Certificate](#))

Jan2025

2. Fundamentals of Deep Learning [NVIDIA] ([Certificate](#))

Nov2023

3. Building Video AI Applications at The Edge On Jetson Nano [NVIDIA] ([Certificate](#))

Jul2023