

Athisundararaj S

📞 +91 8825833434

✉️ athisundararajai@gmail.com

LinkedIn/Athisundararaj

Github/Athisundararaj

EDUCATION

BANNARI AMMAN INSTITUTE OF TECHNOLOGY

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

Aug 2024 - Apr 2026

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