

YATHAM NITISH REDDY

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PROFILE SUMMARY

Software developer with knowledge in AI and machine learning focused on building systems that solve complex problems. Knowledgeable in applying data-driven approaches to create effective solutions. Experienced in working on end-to-end projects, from concept to deployment.

EDUCATION

Bachelor of Technology in CSE - Artificial intelligence Amrita Vishwa Vidyapeetham, Kollam. CGPA : 9.13/10	2022 - Present
Higher Secondary Education Narayana Jr College, Vijayawada. Percentage : 92%	2022
Secondary Education Sri Chaitanya International Olympiad School , Vijayawada. Percentage : 95.33%	2020

PROJECTS

Automated Ticket Verification and Entry System for theatres, <i>Tech Stack: Python, OpenCV, MediaPipe, Pillow, MySQL</i>	November 2024 - December 2024
<ul style="list-style-type: none">Developed an automated ticket verification system with QR code-based validation.Designed a dashboard for insights into ticket sales, employee records, and occupancy logs.	
Aura Code Translator <i>Tech Stack: TypeScript, Visual Studio Code, Gemini API, Git, npm</i>	September 2024 - October 2024
<ul style="list-style-type: none">Aura is a VS Code extension built using TypeScript.Aura uses the Gemini API for seamless code translation between programming languages.Aura simplifies code translation by integrating AI-based code translation directly into your workflow.	
Conditional GAN for MNIST Image Generation <i>Tech Stack: Python, PyTorch, Matplotlib</i>	May 2024
<ul style="list-style-type: none">Developed a Conditional GAN to generate high-quality images of handwritten digits (0-9) from the MNIST dataset, conditioned on specific class labels. This allows for targeted generation of digits based on the input label.Gained hands-on experience in designing and training GAN architectures.Improved understanding of conditional learning for targeted image synthesis.	

TECHNICAL SKILLS

Languages:	Python, Java, C, HTML/CSS, SQL, JavaScript, TypeScript.
Frameworks:	Computer Vision, Data Science, Deep Learning, ROS, Machine Learning, TensorFlow.
Developer Tools:	Git, Docker, Google Cloud Platform, VS Code, PyCharm, IntelliJ.
Libraries:	Pandas, NumPy, Matplotlib, Scikit-Learn, NLTK.

SOFT SKILLS

Teamwork and Collaboration:	Demonstrated ability to work effectively in team settings.
Creativity and Innovation:	Developed unique solutions for project requirements.
Communication Skills:	Proficient in English and Telugu; Conversational proficiency in Hindi.
Leadership Skills:	Proven experience in leading project teams and workshops.

VOLUNTEERING & LEADERSHIP

Student Mentor

June 2024 - Present

SIG AI - ACM Student Chapter

- Mentor junior students by guiding them in AI-related projects, helping them with deep learning, computer vision, and NLP applications. Work on independent AI research projects and contribute to the SIG AI community through knowledge sharing and collaborative development.

Evolumin -Amritapuri

October 2024

Team Lead for the Point of Contact (POC)

- Served as the Team Lead for the Point of Contact (POC) team during EvoLUMIN, Amrita Amritapuri's first national-level hackathon. This leadership role enhanced my communication and organizational skills, ensuring a smooth and welcoming experience for all attendees.

PUBLICATIONS

Enhancing Urban Home Security : Deep Learning Enabled Vehicle Identification

2024

5th International Conference of Emerging Technology

- The vehicle recognition system improves smart home security through advanced object detection and OCR, offering precise vehicle identification.
- Future improvements such as night vision, multisensor integration, and behavioral analysis can further enhance its effectiveness for safer residential areas.

IoT Based Safety Monitoring and Communication System for Underground Coal Mines

2024

Advanced Network Technologies and Intelligent Computing

- Developed an IoT-based safety system for coal mines to monitor environmental factors such as methane, carbon dioxide, temperature, humidity, and soil moisture, enhancing worker safety through real-time alerts and notifications.
- Writing this paper enhanced my understanding of integrating IoT and sensor technologies for real-time monitoring, risk assessment, and improving workplace safety in hazardous environments.

CERTIFICATIONS

NVIDIA DLI Certificate

December 2023

NVIDIA

- Gained expertise in deep learning, computer vision, and AI model deployment using NVIDIA GPUs and CUDA to integrate with DL applications.

COMMUNITY OUTREACH

Youth Empowerment Through Problem-Solving

November 2024

- Conducted an SSR(Student Social Responsibility) session at Trinity Lyceum School, Kollam, as part of a community outreach program. Engaged Class 9 students in interactive discussions on social challenges, encouraging critical thinking, creative problem-solving, and social awareness. Received positive feedback from students and faculty for fostering an important learning experience.