Adithya S Nair

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Profile

A passionate AI undergraduate student on a mission to drive the development of intelligent analytics solutions. With a proven track record of leadership skills as the Former Chairman of the ACM Student Chapter, Fostering collaborative efforts that embrace diversity and innovation. Thriving on challenges and consistently delivering solutions in intense and demanding environments.

Education

09/2021 – 08/2025 Amritapuri, Kollam, India	**B-Tech, Computer Science with Artificial Intelligence and Machine Learning** Amrita Vishwa Vidyapeetham Cgpa- 8.48
03/2019 – 03/2020 Ponkunnam, Kottayam, India	**Higher Secondary (AISSCE/ 12th)** Sreyas Public School and Junior College Percentage - 87%

Skills

Programming Languages
Python | Matlab | SQL

Frameworks
Django | React | Gradio | Streamlit | Next JS | Tailwind | Node

Others
MongoDB | HF | MariaDB | Xampp | CrewAI | Postman

Artificial Intelligence
ML | DL | RL | NLP | EDA | LLM | Agents | Prompt Engineering

Professional Values
Leadership | Results-Oriented | Diversity | Agile | Continuous Learner | Initiator | Adaptable | Integrity

Professional Experience

01/2025 – Present Montpellier, France	**AI Engineer** Doctreen 🔗 Enhancing AI systems for Doctreen's pioneering medical report generation software by infusing state-of-the-art technologies and customizing them to develop innovative approaches that elevate Generative AI Implementation and user experience.
06/2023 – 09/2023 Remote, India	**Virtual Internship Program, Cisco** Cisco & AICTE • Analyzed the university's network topology, focusing on star topology and mapped the infrastructure using **Cisco Packet Tracer**. • Identified vulnerabilities through **attack surface mapping**, assessed risks like unauthorized access and data breaches and recommended security measures such as **VLANs, firewalls, IDP/IPS, and VPNs** to enhance network security. • Delivered a detailed **security assessment report** with proposed countermeasures and a **network topology diagram**.

Leadership Experience

|	
06/2024 – present Amritapuri, Kollam, India	**Member of Advisory Council, ACM, Amritapuri.** • Provide guidance and oversee the club proceedings. • Employed Agile methodology.
05/2023 – 06/2024 Amritapuri, Kollam, India	**Chairperson, ACM Students Chapter** • Developing and executing chapter programs and scheduling executive committee meetings. • Successfully organized two workshops and currently working on an event management website for ACM and the School of Computing at Amrita College

Projects

02/2025 – 03/2025	**Namude Yatra** 🔗 Architected an AI-powered travel itinerary generator leveraging a multi-agent architecture for day-by-day trip planning. Integrated a Streamlit-based UI for user inputs and live progress tracking, interactive map visualizations and a chatbot for real-time travel assistance. Skills: LLM-based Agents, LangChain, Streamlit, Pydeck, Geopy, Generative AI.

10/2024 – 11/2024	**OptiHire** 🔗
	Implemented an AI-powered web application that automates tailored email and cover letter generation, resume analysis, and application tracking to revolutionize the job search process. This tool empowers job seekers to optimize their applications and secure interviews by leveraging advanced NLP, API integrations, and dynamic data visualisations.
	Skills: Streamlit, Web Scrapping, LLM, NLP, Multi-API integration, Prompt Engineering
05/2024 – 06/2024	**ACM, Chapter Website** 🔗
	ACM Students Chapter official Website.
	Created an Official ACM chapter website using Next JS, Tailwind CSS, and Chakra UI, concentrating more on the Front end and hosted on Vercel
04/2024 – 06/2024	**Inventory Optimisation Using DQN.**
	Engineered an inventory optimization system for a single retailer using Deep Q-Network (DQN) to improve stock management and reduce costs.
	Skills: RL, DQN, Market Understanding.
08/2023 – 12/2023	**Visionary Controls of Computer Systems** 🔗
	Gesture based computer control system with voice activated mode switching.
	Skills: OpenCV, NLP
06/2023 – 07/2023	**Deep Learning-Based Classification of Dementia Stages Using Brain Images** 🔗
	Trained using CNN, Predicts 4 stages of Dementia with 99% accuracy using brain MRI Images
	Skills: Deep learning, Gradio, HuggingFace, Tensorflow

Community Outreach Programs

Student Social Responsibility Project
We conducted a class on Introduction to AI and an awareness campaign titled 'Decoding AI' at Sreyas Public School, Kottayam and addressed the objective of the AI awareness gap and fostering equitable access to AI knowledge and opportunities.

Certificates

- Computer Vision 🔗
- bit.ly/certificate-repo 🔗
- Cybersecurity Essentials Badge 🔗
- DL for Images, Text with PyTorch
- Data Visualisation: Empowering Business with Effective Insights 🔗

Courses

09/2021 – present Kollam, India	**Related Course Work** DAA | DSA | OS | Advanced Computer Networks | MIS | IBS | Signals and Image Processing | PML | ROS | DRL | AI in Speech Processing | NLP | DL

Volunteering

03/2023 – 05/2024 Kollam, India	**Vidyut** Core committee member '24 and Executive member 2023 My duty involved managing accommodation arrangements for participants, ensuring their comfort, coordinating with hostels, organising check-ins, and addressing concerns
01/2024 Kollam, India	**ICPC** Asia West Regional Finals '22 and 2023 Overall Coordinator, assisted in organising and running the Competition, this experience helped me develop strong organisational and communication skills while gaining valuable insights into event management

Languages

English
(Professional proficiency)

Malayalam
(Native proficiency)

Hindi
(Working proficiency)

Interests

- Artificial intelligence
- Predictive Analysis
- Data Analysis
- Singing