NEVIN V ADATTE

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GitHub | LinkedIn | Portfolio

PROFESSIONAL SUMMARY

GATE 2024 qualified MTech Artificial Intelligence student at College of Engineering Trivandrum (CGPA: 81.8%) with hands-on experience in computer vision, deep learning, and IoT-based AI systems. Proven ability to design and deploy end-to-end ML pipelines, from data preprocessing to model inference. Experienced in transformer-based architecture, meta-learning, and real-time object detection. Seeking AI/ML engineering roles in computer vision, intelligent automation, or AI product development.

TECHNICAL SKILLS

Languages: Python, C
AI / ML Frameworks: TensorFlow, PyTorch, Scikit-learn, OpenCV, Hugging Face Transformers
Specializations: Computer Vision, Deep Learning, Meta-Learning
Data & Analytics: NumPy, Pandas, Matplotlib, SQL
Web Technologies: Django, Flask, HTML, CSS
Tools & Platforms: Git, GitHub, Google Colab, Jupyter Notebook, Linux
Other: UI/UX Design, Presentation Design, Video Editing, Broadcasting

EXPERIENCE

Assistant Professor, *06/2026 – Present*
Cherthalla Engineering College

- Teach *Robotics and Intelligent Systems*, covering robot fundamentals, sensors and actuators, and intelligent system concepts.
- Conduct *Robotics Lab* sessions with hands-on projects using Arduino and ESP32-CAM, including sensor interfacing, motor control, and camera-based applications.
- Conduct *Machine Learning Lab* sessions, helping students implement and apply ML algorithms to practical problems.

AI/ML Intern, *05/2024 – 06/2024*
NeoITO Technologies

- Developing a sequential, two-agent workflow using the Google Agent Development Kit (ADK) and the gemini-2.0-flash model.
- Utilized Google Search tool to accurately identify and extract URLs for targeted research purposes
- Created a custom scraping tool with the Apify API to perform a deep scrape to extracting structured data

UI/UX Intern, *05/2023 – 05/2023*
Keltron, Kochi

- Utilized HTML, CSS and JavaScript for Web Development projects to enhance user experience and interface design

Intern, *01/2022 – 03/2022*
SpeakApp Social Media

- Advertising and analyzing the user convince in using the product
- Promoted the app across social media platforms by creating and sharing content to attract and engage new users.

PROJECTS

Sign Language Detection System | Tech: *Python, PyTorch, Transformers, MediaPipe, Prototypical Networks*

- Built a meta-learning system for Indian Sign Language (ISL) recognition using Transformer encoders and Prototypical Networks, enabling classification of unseen sign classes with minimal training samples
- Implemented multimodal fusion of hand landmarks, facial expressions, and body pose features for robust recognition under real-world conditions
- Achieved high few-shot classification accuracy across multiple ISL gesture categories

Facial Recognition Based Image Distribution System | Tech: *Python, OpenCV, Deep Learning, Face Recognition*

- Automated event photo organization by building a facial recognition pipeline that sorts and tags images by identified individuals
- Reduced manual photo retrieval time significantly by enabling face-based search and grouping for large image datasets
- Integrated with a user-facing interface for efficient bulk distribution at events

Traffic Sign Detection (Real-Time) | Tech: *Python, YOLOv5, OpenCV*

- Designed and deployed a real-time traffic sign detection system using YOLOv5, capable of processing live video feeds, images, and pre-recorded footage
- Optimized model inference speed for real-time performance, suitable for road safety and autonomous driving support applications

Virtual Smart Home Automation | Tech: *Python, IoT, AI, Voice Recognition*

- Built an IoT-based smart home system with remote access and voice-controlled operations
- Integrated multi-sensor controls for security enhancement across home devices

EDUCATION

M.Tech in Artificial Intelligence *2024 – 2026*
College of Engineering Trivandrum (CET), Kerala | Score: 81.8% | GATE 2024 Qualified (CS & IT)

B.Tech in Computer Science and Engineering *2020 – 2024*
College of Engineering and Management Punnapra, Kerala | Score: 72%

Higher Secondary (Science) *2020*
Technical Higher Secondary School, Mallappally, Kerala | Score: 90%

Secondary School Certificate *2018*
CMS High School, Mundiappally, Kerala | Score: 100%

CERTIFICATIONS & ACHIEVEMENTS

- **GATE 2026 Qualified** — Data Science and Artificial Intelligence
- **GATE 2024 Qualified** — Computer Science & Information Technology