Naghul Adhithya Venkateswaran

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EDUCATION

PM SHRI Kendriya Vidyalaya NO.1, Trichy – CBSE May 2014 - May 2026
Grade IX: 92.2% | Grade X: 94.4% | Grade XI: 90.4% | Grade XII (Predicted): 96.4%

EXPERIENCE

CS Intern, Delhi Technological University June 2025 – Sept 2025
Developing biometric recognition models based on transfer learning under Dr. Indu Singh, improving model accuracy and computational efficiency in advanced CS research.

AI Research Intern, The Ohio State University June 2025 – Aug 2025
Research on Human vs LLM-based solutions under Dr. Rajiv Ramnath, benchmarking an object-oriented calculator and analyzing performance and scalability.

CS Intern, Indian Institute of Information Technology Tiruchirappalli May 2025 – June 2025
Fine-Tuned LoRA-enhanced FLUX.1-dev framework for prompt-to-pencil sketch rendering, increasing AI-generated art accuracy by 12%.

Visual Systems Intern, Cross the Skylimits June 2025 – July 2025
Redesigned UI/UX for social platforms and optimized engagement strategies, boosting user engagement by 20%.

Research Fellow, Incognito Blueprints Aug 2023 – Oct 2023
Optimized SME operations by 25% through AI and MySQL integration, accelerated decision-making by 30%, and boosted project outcomes by 20% via cross-functional collaboration and strategic reporting.

PUBLICATIONS [Google Scholar](#)

- Real-Time Driver Drowsiness Detection for Safe Driving, Springer.
- Real-Time Vehicle Detection and Counting for Traffic Management System, Springer.
- Intelligent Vision-Based System for Vehicle Overtaking, Under Review.

EXTRACURRICULAR ACTIVITIES

Head of Student Council, PM SHRI KV NO.1, Trichy July 2025 – Present
Led 2K+ peers by coordinating STEM workshops, inter-house competitions, and exam prep sessions, increasing student engagement and participation.

Founder – awakened Sep 2024 – July 2025
Built an educational and fitness media platform (5M+ views) by creating study challenges and gym/running content, boosting community participation and promoting study habits.

Teaching Assistant – Cognitive Math, UCMAS Apr 2022 – Dec 2024
Mentored 100+ students across 8 levels by providing structured exercises and guidance, improving calculation speed by 30%.

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, SQL, HTML/CSS
- **Technologies & Tools:** React, Node.js, Flask, MySQL, Git, Jupyter Notebook, VS Code, PyTorch, TensorFlow, Scikit-Learn
- **Core Competencies:** Machine Learning, Deep Learning, Computer Vision, Prompt Engineering, Cybersecurity, Functional Programming, Statistical Modeling, Front-End Development, Data Visualization (NumPy, Pandas, Matplotlib, Seaborn)