NAREN VAITHIYAA G

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EDUCATION

PSG College of Technology   Aug 2023 – May 2027
B.E. Computer Science and Engineering (Artificial Intelligence & Machine Learning)
CGPA - 8.25 (up to 4th sem)   *Coimbatore, Tamil Nadu*

Nirmala Matha Convent Matric Hr.Sec.School   Jun 2021 – Apr 2023
Higher Secondary - 97.6%   *Coimbatore, Tamil Nadu*

COURSEWORK

- Data Structures
- Operating Systems
- Software Engineering
- Linear Algebra
- Object Oriented Programming
- Database Management Systems
- Discrete Mathematics
- Machine Learning
- Design and Analysis of Algorithms
- Computer Architecture
- Probability and Statistics

PROJECTS

Driver Drowsiness Detection System | *Python, Computer Vision*   **Mar 2025**

- Developed a real-time driver drowsiness detection system using OpenCV and deep learning, capable of identifying signs of fatigue from live video feed.
- Fine-tuned YOLOv8 for facial feature detection.
- Built alert system that triggers an auditory buzzer and SMS notification to prevent accidents upon detection of drowsiness.

Conference Website for International Conference | *React.js, Vite, Git, College Collaboration* **Apr 2024 – May 2025**

- Collaborated with college management to design and build the official website for the International Conference on Artificial Intelligence to be held in December 2025, at PSG College of Technology.
- Developed a responsive, single-page application using React and Vite, ensuring fast load times and mobile-friendly access.
- Integrated speaker details, conference schedule, registration forms, and contact functionality.

RESEARCH PAPERS

Synergizing Artificial Intelligence and Nuclear Energy for a Sustainable Future | *ICMRMEN 2025*   **Apr 2025**

- Worked as co-author on a research paper that explored the synergy between AI and Nuclear Energy for a better, sustainable future.
- Presented the paper in the International Conference on Multidisciplinary Research in Mechanical and Energy Nexus (ICMRMEN 2025).

TECHNICAL SKILLS

Operating Systems: Windows, Linux
Languages: Python, Java, C, HTML, CSS, JavaScript, SQL
Developer Tools: VS Code, Cursor, Git, Docker, CodeBlocks, NetBeans
Technologies/Frameworks: React.js, GitHub, Figma, Node.js, Bootstrap

CLUBS AND ASSOCIATIONS

Students Union **Aug 2024 – Present**
Core Member (Public Relations & Sponsorship) - Worked on Flagship events: Intrams 2024, Kriya 2025

Computer Science Engineering Association **Sep 2024 – Present**
Core member (Publicity & Photography) - worked on Flagship events: Infinitum 2025