Vignesh Venkatesan

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Professional Summary

Computer Science Engineering student specializing in Data Science with experience in machine learning, artificial intelligence, and full-stack development. Track record of leading teams to victory in national hackathons and securing competitive research positions at premier healthcare institutions. Expertise spans medical image processing, computer vision, CNN model development, and diabetes detection systems with focus on Python programming and data-driven solutions.

Education

VIT University, Chennai, India 2023 - Present
Bachelor of Technology in Computer Science and Engineering (Data Science) CGPA: 9.48/10.0 (First 4 Semesters)

The Navodaya Academy 2016 - 2023
High School (CBSE Board) Percentage: 93.4% (Top 5% of class)

Professional Experience

Research Intern - Medical Image Processing May 2025 - Present
Dr. Agarwal's Eye Hospital Chennai, India

- Spearheaded research initiatives in medical image processing, analyzing 300+ iris images for early disease detection
- Architected CNN models for diabetes detection achieving 92% accuracy in biomarker identification from iris analysis
- Optimized deep learning algorithms reducing processing time by 40% while maintaining diagnostic precision

Software Development Intern May 2025 - June 2025
Qantler Technologies Namakkal, India

- Engineered responsive Billing System processing 100+ transactions daily using HTML5, CSS3, and JavaScript
- Designed scalable frontend architecture with seamless navigation and robust UI responsiveness
- Streamlined user interface using intuitive design patterns, enhancing usability and minimizing input effort

Technical Projects

Iris Diabetes Detection System using CNN May 2025 - Present
GITHUB

- Constructed end-to-end diabetes detection system processing 300+ iris images with 92% accuracy rate
- Deployed computer vision algorithms for medical image preprocessing, extracting 15+ key biomarkers
- Enhanced non-invasive screening workflow through optimized neural network architecture
- Validated system performance in collaboration with healthcare professionals

Advanced Billing Management System May 2025 - June 2025
GITHUB | LINK

- Delivered comprehensive billing platform managing 50+ products with real-time inventory tracking
- Enhanced user experience by reducing billing process time through streamlined interface design
- Developed intuitive dashboard for product and sales overview to support business operations

Achievements and Awards

1st Place Winner	National Level Hackathon (Dataset2024) - Led 4-member team among 200+ participants	2024
Research Selection	Selected for medical research internship at Agarwal eye hospital	2025
Academic Merit	Ranked top 10% maintaining 9.48/10.0 CGPA across 4 consecutive semesters	2025

Technical Skills

Programming: Python, Java, C++, C, JavaScript, SQL

Machine Learning: TensorFlow, PyTorch, Scikit-learn, OpenCV

Web Technologies: HTML5, CSS3, React.js, Node.js, Express.js

Platforms: Linux, Windows, Git, Docker

Domains: Computer Vision, Data Analysis, Deep Learning

Cloud: AWS, Google Cloud Platform, Azure

Languages

English: Professional Working Proficiency

Tamil: Native Speaker