





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. 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 Bachelor of Technology in Computer Science and Engineering (Data Science)	2023 - Present CGPA: 9.48/10.0 (First 4 Semesters)
The Navodaya Academy High School (CBSE Board)	2016 - 2023 Percentage: 93.4% (Top 5% of class)

PROFESSIONAL EXPERIENCE

Research Intern - Medical Image Processing Dr. Agarwal's Eye Hospital	May 2025 - Present Chennai, India
<ul style="list-style-type: none">Spearheaded research initiatives in medical image processing, analyzing 300+ iris images for early disease detectionArchitected CNN models for diabetes detection achieving 92% accuracy in biomarker identification from iris analysisOptimized deep learning algorithms reducing processing time by 40% while maintaining diagnostic precision	
Software Development Intern Qantler Technologies	May 2025 - June 2025 Namakkal, India
<ul style="list-style-type: none">Engineered responsive Billing System using HTML5, CSS3, and JavaScriptDesigned scalable frontend architecture with seamless navigation and robust UI responsivenessStreamlined user interface using intuitive design patterns, enhancing usability and minimizing input effort	

TECHNICAL PROJECTS

Iris Diabetes Detection System using CNN	May 2025 - Present  GITHUB
<ul style="list-style-type: none">Constructed end-to-end diabetes detection system processing 300+ iris images with 92% accuracy rateDeployed computer vision algorithms for medical image preprocessing, extracting 15+ key biomarkersEnhanced non-invasive screening workflow through optimized neural network architectureValidated system performance in collaboration with healthcare professionals	
Advanced Billing Management System	May 2025 - June 2025  GITHUB  LINK
<ul style="list-style-type: none">Delivered comprehensive billing platform managing 50+ products with real-time inventory trackingEnhanced user experience by reducing billing process time through streamlined interface designDeveloped intuitive dashboard for product and sales overview to support business operations	

ACHIEVEMENTS AND AWARDS

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
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