





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

Frontend Development Intern Tachyon Robotics	Aug 2025 - Present Chennai, India
<ul style="list-style-type: none">Developed scalable admin dashboard in React.js to support robotics workflowsIntegrated authentication with Auth0 and designed interactive UI components for seamless data access	
Research Intern - Medical Image Processing Dr. Agarwal's Eye Hospital	May 2025 - Present Chennai, India
<ul style="list-style-type: none">Conducted research on 300+ iris images to identify biomarkers for early diabetes detectionImplemented CNN-based models achieving 92% accuracy in medical image classificationOptimized training pipelines, reducing processing time by 40% while maintaining precision	
Frontend Development Intern Qantler Technologies	May 2025 - June 2025 Namakkal, India
<ul style="list-style-type: none">Designed and implemented responsive billing system using HTML5, CSS3, and JavaScriptStructured scalable frontend architecture with smooth navigation and strong responsivenessImproved usability with intuitive interface elements, minimizing effort for end users	

TECHNICAL PROJECTS

Iris Diabetes Detection System using CNN	May 2025 - Present  GITHUB
<ul style="list-style-type: none">Engineered end-to-end detection pipeline processing 300+ iris images with 92% accuracyApplied image preprocessing techniques to extract 15+ key biomarkers from medical scansEnhanced non-invasive screening through optimized neural network architectureCollaborated with healthcare professionals to validate model performance	
Advanced Billing Management System	May 2025 - June 2025  GITHUB  LINK
<ul style="list-style-type: none">Delivered billing platform managing 50+ products with real-time inventory trackingReduced billing process time by refining user interface and workflow designCreated dashboard for sales and product overview supporting 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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