





Vignesh Venkatesan

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ABOUT ME

Passionate Computer Science undergraduate specializing in Data Science with hands-on experience in machine learning, deep learning, and full-stack development. Demonstrated leadership through hackathon victories and research collaborations with medical institutions. Actively engaged in cutting-edge research on medical image processing and diabetes detection using CNN models. Seeking opportunities to apply technical expertise in data-driven solutions and innovative technology development.




EDUCATION

VIT University, Chennai, India B.Tech in Computer Science and Engineering (Data Science)	2023 - Present CGPA: 9.48 (First 4 Semesters)
The Navodaya Academy High School (CBSE Board)	2016 - 2023 Percentage: 94.2%

EXPERIENCE

Research Intern Dr. Agarwal's Eye Hospital	May 2025 - Present Chennai, India
<ul style="list-style-type: none">Leading research initiatives in medical image processing and iris image analysis for early disease detectionFocusing on iris image analysis for diabetes detection using advanced deep learning techniquesDeveloping CNN models for biomarker identification and automated medical diagnosis systemsCollaborating with medical experts to enhance diagnostic accuracy and patient care outcomes	
Summer Intern Qantler Technologies	May 2025 - June 2025 Remote
<ul style="list-style-type: none">Designed and developed responsive web applications using modern frontend frameworksImplemented robust frontend interfaces and scalable backend services for enterprise solutionsContributed to end-to-end deployment processes as a full stack developerGained expertise in agile development methodologies and collaborative software engineering	

PROJECTS

Iris Diabetes Detection using CNN	May 2025 - Present  GITHUB
<ul style="list-style-type: none">Developing a revolutionary diabetes detection system using iris image analysis and Convolutional Neural NetworksImplementing advanced computer vision techniques for medical image preprocessing and feature extractionAchieving high accuracy in non-invasive diabetes screening through deep learning model optimizationOngoing research collaboration with medical professionals for real-world application validation	
Advanced Billing Management System	March 2025 - April 2025  GITHUB  LINK
<ul style="list-style-type: none">Developed a comprehensive billing system with dynamic product management and inventory trackingImplemented real-time stock monitoring, quantity adjustments, and automated sales analyticsBuilt responsive user interface with intuitive controls for product addition, billing, and report generationIntegrated advanced features for inventory management and business intelligence dashboard	

ACHIEVEMENTS

Winner	National Level Hackathon (Dataset2024) - Led team to victory with innovative data solutions	2024
Research Collaboration	Selected for prestigious medical research internship at Dr. Agarwal's Eye Hospital	2025
Academic Excellence	Consistent high academic performance with 9.48 CGPA across 4 semesters	2025
Industry Recognition	Secured competitive summer internship at Qantler Technologies	2025
Open Source Contributor	Active GitHub contributor with multiple public repositories and projects	2025

TECHNICAL SKILLS

Programming Languages: Python, Java, C++, C, JavaScript, SQL	Machine Learning: TensorFlow, PyTorch, Scikit-learn, OpenCV
Web Technologies: HTML5, CSS3, React.js, Node.js, Express.js	Databases: MySQL, MongoDB, PostgreSQL
Development Tools: Git, Docker, VS Code, Jupyter Notebook	Operating Systems: Linux, Windows, macOS
Specializations: Deep Learning, Computer Vision, Data Analysis	Cloud Platforms: AWS, Google Cloud Platform

LANGUAGES

English: Fluent	Tamil: Native speaker
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