





# 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

<b>VIT University, Chennai, India</b> B.Tech in Computer Science and Engineering (Data Science)	2023 - Present CGPA: 9.48 (First 4 Semesters)
<b>The Navodaya Academy</b> High School (CBSE Board)	2016 - 2023 Percentage: 93.4%

## EXPERIENCE

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

## PROJECTS

<b>Iris Diabetes Detection using CNN</b>	May 2025 - Present  <a href="#">GITHUB</a>
<ul style="list-style-type: none"><li>Developing a revolutionary diabetes detection system using iris image analysis and Convolutional Neural Networks</li><li>Implementing advanced computer vision techniques for medical image preprocessing and feature extraction</li><li>Achieving high accuracy in non-invasive diabetes screening through deep learning model optimization</li><li>Ongoing research collaboration with medical professionals for real-world application validation</li></ul>	
<b>Advanced Billing Management System</b>	May 2025 - June 2025  <a href="#">GITHUB</a>    <a href="#">LINK</a>
<ul style="list-style-type: none"><li>Developed a comprehensive billing system with dynamic product management and inventory tracking</li><li>Implemented real-time stock monitoring, quantity adjustments, and automated sales analytics</li><li>Built responsive user interface with intuitive controls for product addition, billing, and report generation</li><li>Integrated advanced features for inventory management and business intelligence dashboard</li></ul>	

## ACHIEVEMENTS

<b>Winner</b>	National Level Hackathon (Dataset2024) - Led team to victory with innovative data solutions	2024
<b>Research Collaboration</b>	Selected for prestigious medical research internship at Dr. Agarwal's Eye Hospital	2025
<b>Academic Excellence</b>	Consistent high academic performance with 9.48 CGPA across 4 semesters	2025

## TECHNICAL SKILLS

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

## LANGUAGES

<b>English:</b> Fluent	<b>Tamil:</b> Native speaker
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