# 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

- Leading research initiatives in medical image processing and iris image analysis for early disease detection
- Focusing on iris image analysis for diabetes detection using advanced deep learning techniques
- Developing CNN models for biomarker identification and automated medical diagnosis systems
- Collaborating with medical experts to enhance diagnostic accuracy and patient care outcomes

**Summer Intern**
Qantler Technologies
May 2025 - June 2025
Namakkal, India

- Designed and developed responsive web applications using modern frontend frameworks
- Implemented robust frontend interfaces and scalable backend services for enterprise solutions
- Contributed to end-to-end deployment processes as a full stack developer
- Gained expertise in agile development methodologies and collaborative software engineering

## Projects

**Iris Diabetes Detection using CNN**
May 2025 - Present
 GITHUB

- Developing a revolutionary diabetes detection system using iris image analysis and Convolutional Neural Networks
- Implementing advanced computer vision techniques for medical image preprocessing and feature extraction
- Achieving high accuracy in non-invasive diabetes screening through deep learning model optimization
- Ongoing research collaboration with medical professionals for real-world application validation

**Advanced Billing Management System**
March 2025 - April 2025
 GITHUB |  LINK

- Developed a comprehensive billing system with dynamic product management and inventory tracking
- Implemented real-time stock monitoring, quantity adjustments, and automated sales analytics
- Built responsive user interface with intuitive controls for product addition, billing, and report generation
- Integrated advanced features for inventory management and business intelligence dashboard

## Achievements

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|---|---|---|
| **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 |

## 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