

# VIJAYAKANTH M

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## OBJECTIVE

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An engineering student who is eager to apply technical skills and problem-solving strategies in real-world projects in order to get valuable experience and contribute significantly in demanding and creative environments.

## EDUCATION

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**B.Tech - Artificial Intelligence and Machine Learning,** Expected 2027  
Kongu Engineering College, Erode with CGPA: 8.72 \* **Coursework:** Python, JAVA, C, and JavaScript.

**HSC in Computer Science** , Kongu vellalar Matriculation hr.sec.school, Perundurai with 94%. 2022 - 2023

**SSLC**, Kongu vellalar matriculation hr.sec. school, Perundurai, Erode. 2020 - 2021

## SKILLS

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<b>Technical Skills</b>	C, Python, Java, HTML, CSS, JavaScript, React.js, Node.js, Express.js, MySQL, MongoDB, Machine Learning
<b>Tools</b>	Git, GitHub, Blender
<b>Soft Skills</b>	Communication, Teamwork, Problem-solving
<b>Languages</b>	English, Tamil

## EXPERIENCE

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**Intern** Nov 2024 - Jan 2025  
ZEONE

- Gained practical knowledge in Full Stack development as part of a program conducted by Zeone.
- Worked on back-end development using Node.js for an AI Interview Chatbot.

**Intern** Feb 2025 - current  
SHINELOGICS

- Gained practical knowledge in Deep Learning models as part of a program conducted by Shinelogics.
- Worked on real-time projects involving Deep Learning applications, including the prediction of fruits and vegetables.

## PROJECTS

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**Refined CAPTCHA.** An advanced bot detection system that replaces traditional CAPTCHAs with machine learning analyzing user interaction patterns (mouse movements, typing speed) to distinguish humans from bots while being less frustrating for users.

**Classify Songs by Genre.** A machine learning model that analyzes audio features (tempo, frequency spectrum) to automatically categorize music tracks into genres like rock, jazz, or classical with 85%+ accuracy.

**Feedback Collection System.** Developed and implemented a student feedback system using Java Spring Boot, allowing students to submit and view course evaluations.

**Dynamic Chatbot for Farm2Bag.** Worked on a project to develop a chatbot that dynamically utilizes website data to assist users in finding products and providing recommendations. Implemented data preprocessing, natural language processing.

**Attendance Automation System.** Developed an attendance automation system using the MERN stack, reducing the manual attendance process from 1.5 hours to just 10 minutes. Implemented efficient data handling, real-time updates, and a user-friendly interface to streamline attendance tracking.

**Fruit and Vegetable Identifier.** Built a real-time fruit and vegetable recognition system using Flask, Groq LLM, and image embeddings to identify fruits or vegetables from uploaded images. Integrated LLM-based visual inference with semantic similarity for accurate classification from a predefined label set.

**Visualizing Math – AI for Learning.** Built a personalized math tutor chatbot using NLP and adaptive learning algorithms. The system evaluates student responses to customize lesson difficulty, generates dynamic visualizations of equations, and tracks progress to optimize learning paths in real-time.

**DCGRAM – Instagram Clone.** A fully functional social media platform with, comments, followers system, and secure login - replicating core Instagram features with MERN stack.

**AI Study Buddy.** A smart scheduling assistant that sets reminders for assignments/exams via Telegram and web app, with Q&A capabilities using educational content databases.

**AI Stock Portfolio Manager.** Analyzes investment portfolios by processing CSV exports from brokerages, generates performance charts, and provides AI-generated insights using market data and Groq's LLM.

## AREA OF INTEREST

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- Web Development
- Machine Learning
- Animation
- Video Editing

## CERTIFIATE

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- MongoDB Associate Developer
- Ethical Hacking - NPTEL

## ACHIVEMENTS

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- Secured 2nd Place in 2023 Academic Excellence Award - Kongu Vellalar Trust.
- Secured 1st place in Hacksphere 2025(24hr Hackathon) - AI Coding club.
- Secured 3rd place in AUTONIX 2024 Paper Presentation(KEC college).
- Secured 1st Place in PRODOTHON 2025 Paper Presentation(PSG college).
- Secured 1st place in ENVISTAS 2025 Paper Presentation(KEC college).
- Awarded Best Presentation and Best Team Collaboration in BYTS INDIA HACKATHON (BIH) 1.0 - Artificial Intelligence (KEC college).