

K S VENKATRAM

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Chennai, Tamil Nadu - 600 040, India

EDUCATION

- **Amrita Vishwa Vidyapeetam** 2023 – 2027
B.Tech in Computer Science (AI) Coimbatore, India
– GPA: 7.93/ 10.00

WORK EXPERIENCE

- **AI Engineer Intern** Apr 2025 – Jul 2025
DigiSignals India Pvt Ltd
- Worked as a team member in building an Agentic RAG application for Bray International, a leader in flow control and automation products.
- Built a feedback analysis mechanism for handling inaccurate responses for User Questions answered by their AI Bot

PROJECTS

- **Food Monitoring System using IoT and ML** Feb 2024 – Apr 2024
Python, ESP32, Sensors, ML, GPT-4
 - Built a smart system with sensors and ESP32 to monitor food freshness.
 - Trained ML models to detect spoilage from real-time data.
 - Added recipe suggestions powered by large language models.
- **Speaking System for Mute People Using Hand Gestures** Jan 2024 – Mar 2024
Python, OpenCV, KNN, Arduino
 - Recognized hand gestures in real-time using OpenCV and KNN.
 - Converted gestures to speech with Arduino and voice module.
 - Enabled intuitive communication for mute individuals.
- **Farm2Market System (Cloud platform)** June 2024
Python, Next.js, Tailwind CSS, Azure App Service, Logic Apps, Azure Database, Django
 - Developed a cloud platform connecting farmers, consumers, and dealers.
 - Designed a clean, interactive front end with Next.js and Tailwind CSS.
 - Enabled live updates and notifications for real-time engagement.

SKILLS

- **Languages:** Python , C++ , C
- **Frameworks/Tools:** React, OpenCV, Next, MySQL, Apache, Docker
- **Domains:** Machine Learning , Large Language Models, Azure Devops

PAPERS PUBLISHED

- **Hand Gesture-Driven Speech Aid for Mute Individuals:** [View Paper](#)

CERTIFICATES

- **Machine learning and Deep Learning – IIT Madras (June 2024):** [View Certificate](#)
- **Large Language Models – IIT Madras (June 2024):** [View Certificate](#)