

SESHAJALAM . G

SOFTWARE DEVELOPER | MACHINE LEARNING ENGINEER | DATA ANALYST

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PROFILE

AI/ML enthusiast with a strong academic foundation and hands-on experience in developing real-world applications using deep learning and computer vision techniques. Completed impactful internships focusing on ML, LLM, CNN, and Generative AI, contributing to innovative projects in medical imaging, gesture control, and object detection models. Skilled in Python, TensorFlow, OpenCV, and model optimization, with a passion for solving complex problems through data-driven solutions.

SKILLS

- **Programming Languages:** C, C++, Python, Java, SQL
- **Machine Learning:** Supervised & Unsupervised Learning, Regression, Classification, Feature Engineering
- **Deep Learning:** CNN, LSTM, Model Optimization, Transfer Learning
- **Computer Vision:** OpenCV, Image Preprocessing, YOLO
- **Data Science & Analysis:** Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn
- **Frameworks & Tools:** TensorFlow, Keras, Flask, Django

EDUCATION

Master of Technology

Vellore Institute of Technology

Aug 2023 - April 2025

Computer Science and Engineering
Specialization with AIML

CGPA - 8.2

Bachelor of Technology

Kingston Engineering College

Aug 2019 - May2023

Information Technology

CGPA - 8.1

LANGUAGES

Tamil

English

WORK EXPERIENCE

AI Research Intern

June-2025- At Present

Evolve Robotic Lab

- Selected for Gen AI Internship Program to explore and contribute to cutting-edge Generative AI projects
- Worked on prompt engineering, model fine-tuning, and evaluation techniques for generative language tasks.
- Gained experience in real-world AI applications, ethical considerations, and innovation strategies
- Contributed to team reports, weekly knowledge-sharing sessions, and end-of-internship presentations

Machine Learning Intern

June-2024- August 2024

Teachnook

- Preprocessed 10,000+ images using CNN, improving model accuracy.
- Implemented classification and regression models for real-world applications.
- Worked with NumPy, Pandas, Keras, TensorFlow, Matplotlib, and Scikit-learn.

Project

Hand Gesture Recognition for YouTube Control

Jan 2025 - April 2025

- Built a CNN-LSTM-based gesture recognition system for automating YouTube playback controls.
- Implemented 15+ custom gestures with PyAutoGUI for seamless user interaction.

Deep Learning approach for Pneumonia detection

June 2024 - Dec 2024

- Designed and trained a CNN-based model using RetinaNet & CheXNet for pneumonia detection. Processed 70,000+ chest X-ray images to enhance model performance.
- Achieved 93% accuracy, improving diagnostic efficiency in medical imaging

Real time object detection using YOLO v8

Jan 2023 - May 2023

- Developed a real-time object detection system using YOLO with a <50ms response time.
- Implemented optimized anchor boxes, improving object localization accuracy by 12%.Deployed a lightweight model for fast inference on edge devices.

Certifications

- Python - GUVI (2023): Covered OOP, data structures, and algorithms.
- AWS Cloud Practitioner: Hands-on experience in cloud computing & deployment.
- Machine Learning - Teachnook: Built ML models for real-world applications