

SIV RAAM KRISHNAN .K.V

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PROFILE

A skilled AI/ML engineer who can develop and deploy scalable ML models with optimized pipelines. Proficient in OpenCV, Docker, Git, and CI/CD workflows. Has hands-on experience in deploying and monitoring machine learning models. Strong understanding of software engineering principles, focusing on performance, reliability, and maintainability. Capable of collaborating across teams and delivering high-quality, production-ready solutions.

EDUCATION

Sri Shakthi Institute of Engineering & Technology, Coimbatore

B. Tech, Artificial Intelligence & Data Science

Aug 2022 - May 2026

- CGPA: 8.19

Chandra Matriculation Higher Secondary School, Coimbatore

HSC

May 2021 - Jun 2022

- Percentage: 78%

St.Joseph's Matriculation Higher Secondary School, Coimbatore

SSLC

May 2019 - Jun 2020

- Percentage: 78%

EXPERIENCE

RampEx Technologies

MLOps Trainee

Nov 2024 - Dec 2024

- Developed automated CI/CD pipelines to make model deployment and updates smoother
- I used Docker to create containerized ML models and deployed them to AWS EC2 and ECR.
- Worked with different teams to improve the accuracy and quality of deployment processes.

Sri Shakthi Institute of Engineering and technology

Student Mentor

Jan 2025 - Current

- Mentored over 100 students in DSA, OS, and Computer Networks by providing academic support and guidance.
- Held daily sessions and provided one-on-one mentoring to help students perform better.
- Created learning materials and monitored student progress

PROJECTS

PrepMe – AI Based Interview preparation assistant:

Link: <https://ai-mock-interviews-er34-q9m11uirm.vercel.app/>

Tools: Next.js, VAPI, Gemini API, Vercel, Github, NLP, Voice Models

- Designed and launched a **cloud-based conversational AI assistant** for mock interview preparation using **LLMs and voice workflows** which helped the **candidates to prepare and ace their interviews**
- Implemented **real-time speech recognition and transcript processing** to extract user information dynamically
- Integrated a complete workflow that **connects cloud APIs, LLM prompts, and dynamic conversation chaining**.
- Added a feature to **generate detailed feedback** for every interview taken by the user through a **feedback mechanism**

Manufacturing Fault Detection:

Link: https://github.com/sivraamkrishnankv/manufacturing_fault_detection

Tools: GitHub Actions, LabelImg, Yolo V5, AWS, ECR, Google Colab

- Developed and trained a **real-time defect detection system** with **YOLOv5** to classify surface defects on cars.
- Created and **labeled a custom dataset** with **LabelImg**, generating accurate boundaries and class labels for precise object detection.
- Deployed the application using **Docker and AWS ECR**. Built an **automated CI/CD pipeline** with **GitHub Actions** for seamless updates.

Deep Fake Detection Model

- Incorporated a deepfake detection system using a multi-model approach
- Utilized EfficientNet for frame analysis and a metadata model for extracting video metadata
- Implemented a machine learning model to determine whether a video is a deepfake, enhancing trust in digital Inf.

PUBLICATIONS

- Siv Raam Krishnan.K.V, Nivas Sivakumar, Nithya Prakas.M, Pooja.G. **Deep-Fake Detection using Multi-Model Approach with ML Algorithms.** Published in the International Journal of Research and Analytical Reviews (IJRAR)

SKILLS

- **Technical Skills:** ML Model-Development, Data Analysis, Business Analysis, Software Development, MLOps
- **Programming Languages:** Python, SQL (MySQL), Bash
- **Tools:** GitHub, Docker, VS Code, PyCharm, PowerBI, Excel(Advanced), Git, Jenkins
- **Libraries:** pandas, NumPy, OpenCV

ACHIEVEMENTS

- **Top 20 Coder Recognition:** Selected as one of the top 20 coders at the institution for outstanding performance in solving complex problems in Data Structures and Algorithms (DSA). This shows strong analytical and problem-solving skills.
- **700+ Coding Problems Solved:** Completed more than 700 coding challenges on platforms like LeetCode, Codeforces, and HackerRank. This has consistently improved algorithmic thinking and coding skills.
- **Host – Career Conclave 2024:** Successfully hosted and organized the Career Conclave four times **at Sri Shakthi Institute of Engineering and Technology**. This role highlighted public speaking skills and leadership in organizing and engaging with industry experts and students.
- Published ‘**mlgos**’, an **open-source Python package** on **PyPL**, demonstrating proficiency in Python development and open-source contribution, that has comprised off various **optimized ML algorithms**.

CERTIFICATES

Code Neatly: coder's Point

Advanced Excel: Udemy

Mastering MS PowerBI: Udemy

Data Science: Python for Data Analysis: Udemy