

SRINIVASAN R

AI & ML Developer

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Profile

As an engineer and AI/ML developer, I'm passionate about building intelligent systems that solve pressing real-world problems. I'm passionate about Python, machine learning, deep learning, and data science, with a focus on developing and enhancing AI-driven solutions that elevate productivity and decision-making. I thrive in collaborative environments where I can contribute ideas, design innovative solutions, and drive their implementation. My mission is to harness creativity and cutting-edge technology to transform visionary concepts into scalable AI applications.

Summary of Technical Skills

- Machine Learning: Supervised & Unsupervised Learning (Regression, Classification, Clustering)
- Deep Learning (CNNs, RNNs, LSTMs, Transformers)
- Generative AI (LLMs, GANs)
- Programming: Python, JavaScript, Go
- Frameworks: TensorFlow, Keras, OpenCV, Streamlit, Scikit-learn
- Web Dev: React, Tailwind, Flask, REST APIs
- Database Tools: MySQL, PostgreSQL, MongoDB
- Version Control: Git & GitHub
- Tools: Jupyter Notebook, VS Code, Google Colab.

Non-Technical Skills

- Critical Thinker | Leadership | Problem Solver
- Teamwork | Adaptability | Time Management
- Decision Making

Experience

Pricol Ltd Automotive industry company, **Deep Learning Engineer Intern**
Coimbatore

Feb – May 2024

- **Telltale Inspection For EOL Testing Using CNN**

Developed a high-performing image classification system for detecting telltale signs in instrument cluster images using OpenCV and Keras. Implemented robust preprocessing, anomaly detection (brightness, color, segment cutoffs, scratches), and CNN-based classification techniques. Achieved 90-95% accuracy based on dataset quality, with effective data handling via NumPy and scikit-learn, and performance visualization using Matplotlib. Integrated all components into a cohesive and reliable model.

- **Language:** Python
- **Frameworks:** TensorFlow, Keras, OpenCV

Education

Kathir College of Engineering (Autonomous)

Nov 2021 – May 2025

B.Tech Artificial Intelligence & Data Science

- CGPA: 7.8/10
- **Courseworks:** Python, Machine Learning and Deep Learning Algorithms & Frameworks, Artificial Intelligence, Probability and Statistics, Computer Networks, Database Design, Data Science, Operating Systems.

Projects

Final Year Project

2024 – 2025

- **SignSpell - Speech to sign language using animated avatars**

Niral Thiruvizha 2.0 | Naan Mudhalvan | Hackathon 2025

Developed an AI-powered system for real-time translation of speech into Indian Sign Language (ISL) using 3D animated avatars, enabling inclusive and barrier-free communication during live events, public addresses, and broadcasts. Key goals included eliminating the dependency on human interpreters and enhancing civic participation for individuals with hearing impairments.

Frontend - ReactJS, Tailwind **Backend** - Flask-SocketIO, Google LLMs

Databases - PostgreSQL+pgvector **Tools** - Blender, ThreeJS

- **Scam Era - Deepfake Detection**

SCAM (Secure Content Authentication Module) is a real-time DeepFake detection system using an EfficientNet-based ensemble with Siamese training. It combines a Flask backend and React.js frontend for fast, accurate video analysis, achieving top 3% performance on the DFDC challenge. SCAM ensures media authenticity and combats digital misinformation effectively.

Language: Python **Framework** - TensorFlow, Opencv, Pytorch

Mini Projects

Company Related, ML & DL Projects

2023 – 2024

- **HR AI ChatBot Using Machine Learning**

Create an effective HR chatbot using NLTK by defining intents, classifying queries, providing predefined responses, and continuously updating with new HR data.

Language: Python , **Framework** - NLTK, SVM, Sk-learn, Flask.

Certifications

- Deep Dive in Deep Learning – Scalar

Association

ADEPT Professional Organization at KCE, Coding Club Co-ordinator

2023 – 2024

- As Club Coordinator, I organize activities, coding sessions, and workshops to foster collaboration and enhance members' technical skills.