SRINIVASAN R

AI & ML Developer

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Profile

Skilled AI/ML Developer with a strong focus on developing intelligent, scalable solutions using Python, machine learning, and deep learning. Experienced in building end-to-end AI systems that solve real-world problems and enhance decision-making. Adept at transforming ideas into production-ready models through rigorous experimentation and collaboration. Committed to leveraging advanced technologies to drive innovation, improve efficiency, and deliver measurable impact.

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, Pytorch
- 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** Feb – May 2024
Coimbatore

- **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**
  Finalist | Niral Thiruvizha 2.O | Naan Mudhalvan | Hackathon 2025 | State-Level Innovation Challenge
  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 - Next JS, 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.