SHIVAPRAKASH S

Coimbatore, India — shivaprakashsrinivasaniam@gmail.com — LinkedIn — GitHub — 9994722736

Career Objective

Passionate computer vision engineer with expertise in image processing, object detection, and deep learning techniques. Proficient in Python, OpenCV, TensorFlow, and YOLO algorithm. Skilled in developing innovative solutions for tasks like real-time object detection, fitness tracking, and disease prediction. Experienced in deploying models for practical applications and optimizing performance for large datasets. Dedicated to advancing computer vision through innovative projects and continuous learning.

Education

- **B.Tech. AI & DS, CGPA - 8.12,** KGiSL Institute of Technology, Coimbatore *2021-2025*

Work Experience

- **Machine Learning Intern - SAVYAI** *Jan 1 - Jun 31, 2025*
  - Developed a Multimodal RAG system using GPT models and Milvus, optimizing retrieval performance through cross-validation and fine-tuning hyperparameters in hybrid search (BM25 + Dense Retrieval) for improved document intelligence.
- **AI & ML Intern - KGXPERIENCE** *July 1 - July 31, 2023*
  - Achieved 0.78229 accuracy by leveraging multiple models in cross-validation and optimizing hyperparameters using GridSearchCV, enhancing ensemble performance through advanced feature engineering.

Technical Skills

- **Languages:** Python, SQL
- **Libraries/Frameworks:** Numpy, Pandas, Seaborn, Plotly, Scipy, Matplotlib, Scikit-Learn
- **Computer Vision:** Tensorflow, OpenCV, YOLO (You Only Look Once), Pytorch
- **GenAI:** Pytorch, OpenAI models, Langchain, Langgraph
- **Version Control & Cloud :** Git, Github, AWS, Azure

Soft Skills

- Time Management, Communication, Adaptability, Teamwork
- Problem Solving, Creativity, Leadership, Attention to Detail

Projects

- **FITNESS AI:** - Developed a AI Fitness application that can track the HIIT workout performed by the users. It uses Mediapipe and OpenCV providing accuracy over 90 percent.
- **VIDHAI:** - Developed a Tomato Disease Identification application along with the user interface for communication between Farmers and Consumers.This project leverages the YOLOv8 algorithm to predict tomato diseases with accuracy over 87 %.
- **MOVIE RECOMMENDATION - LANGCHAIN** - Developed a dynamic movie recommendation system using LangChain and OpenAI's GPT models. The app generates personalized movie recommendations based on user input such as genre, director, or actor, utilizing IMDb data for accurate suggestions.

Participations & Achievements

- **Tomato Grand Challenge** *January 22, 2024*
  - Shortlisted for the Final Round, conducted by the Ministry of Consumer Affairs
  - Developed an application called VIDHAI, enabling connectivity among consumers and producers
- **Smart India Hackathon selection - Internal** *September 16, 2023*
  - Selected in the Internal hackathon conducted by KGiSL Educational Institution for Finals Submission among 100 teams
  - Developed an application for job search platform with LLM assistance
- **AWS Deepracer 2.0 league** *March 10-12, 2023*
  - A 48-hour bootcamp organized by KGiSL Educational Institutions
  - Collaborated with a team of two to develop an AWS Deepracer model
- **Crackathon** *October 20-21, 2022*
  - Participated in a 48 hrs hackathon, conducted by M Kumarasamy College of Engineering, Karur.
  - Developed a smart trolley project - GOCART and selected in top 7 teams.
- **PYEXPO 2022** *February 12, 2022*
  - Secured Second Runner-Up in hackathon organized by KGiSL Institution with cash reward of 12500
  - Built a Restaurant Bill Generator using Python Language