

Sreedev A

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SUMMARY

AI/ML Engineer with hands-on experience developing and integrating machine learning, deep learning, computer vision, NLP, and AI-enabled applications. Experienced across the machine learning lifecycle including data preprocessing, feature engineering, model development, evaluation, inference, API integration, and application deployment. Strong proficiency in Python, TensorFlow, Keras, Scikit-learn, OpenCV, MediaPipe, Pandas, NumPy, FastAPI, REST APIs, Next.js, and SQL.

Currently working as an AI/ML Engineer at Meetmux, contributing to practical AI solutions and application development across AI, backend, computer vision, and user-facing components. Experienced in building real-time intelligent systems, AI-powered assessment and monitoring platforms, machine learning prototypes, and deployable web applications.

Hands-on experience deploying and exposing applications through platforms and services including Vercel, Render, Netlify, GitHub Pages, Streamlit, and Cloudflare Tunnel. Strong interest in Applied AI, Computer Vision, Generative AI, AI application development, and production-oriented machine learning systems.

EDUCATION

Visvesvaraya Technological University (VTU)

Bachelor of Technology — Artificial Intelligence & Machine Learning, Relevant Areas:, Artificial Intelligence, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Data Science, Database Management Systems

Graduated: 2024

EXPERIENCE

AI/ML Engineer

Jan 2026 – Present

Meetmux

- Develop and support AI and machine learning solutions using Python and modern machine learning frameworks.
- Work across the AI development lifecycle including data preprocessing, model development, evaluation, inference, and application integration.
- Build and integrate AI functionality with backend services and REST APIs using FastAPI.
- Develop computer vision and intelligent monitoring workflows using OpenCV, TensorFlow, and MediaPipe.
- Analyze model behavior and application outputs to identify issues and improve system reliability.
- Collaborate across frontend, backend, and AI components to deliver integrated applications.
- Debug model, API, and application-level issues and implement practical improvements based on testing and requirements.
- Use Git and GitHub for version control and structured software development.

Machine Learning Intern

Oct 2024 – Mar 2025

Feyn Labs

- Developed machine learning prototypes for business and data-analysis use cases.
- Implemented NLP-based clustering and matching approaches for the Matchify project.
- Performed customer and market segmentation using K-Means, KNN, and PCA.
- Built data preprocessing and feature-engineering workflows using Pandas, NumPy, and Scikit-learn.
- Compared machine learning models and evaluated predictive performance.
- Worked on AI prototypes involving financial datasets, time-series analysis, and predictive modeling.
- Applied machine learning techniques to translate business and data problems into practical solutions.

Aerobosoft

- Developed machine learning models for Kyphosis classification.
- Implemented and compared Support Vector Machine, Random Forest, and XGBoost algorithms.
- Performed data preprocessing, feature analysis, model training, and performance evaluation.
- Contributed to an NLP chatbot prototype and explored approaches for improving conversational responses.
- Gained practical experience across end-to-end machine learning experimentation and evaluation.

PROJECTS

AI-Powered Adaptive Assessment & Proctoring Platform | Python | FastAPI | Next.js | OpenCV | Computer Vision | REST APIs

- Designed and developed an end-to-end AI-enabled online assessment platform with candidate and administrator workflows.
- Implemented webcam-based monitoring for mobile phones, multiple persons, candidate absence, and look-away behavior.
- Developed automated evidence capture for detected violations with timestamps for administrator review.
- Implemented candidate risk-scoring logic based on recorded proctoring events.
- Developed an adaptive assessment engine that adjusts question selection according to candidate performance and difficulty.
- Integrated a Next.js frontend with FastAPI backend services and AI monitoring components.
- Implemented fullscreen enforcement and monitoring for tab switching, minimizing, and assessment exits.
- Built administrator functionality for reviewing candidate activity, evidence, assessment results, and risk information.
- Configured remote application testing and access using Cloudflare Tunnel.
- Worked through frontend, backend, AI inference, API integration, monitoring, and deployment workflows.

Cardiovascular Disease Detection Using Retinal Images | Python | TensorFlow | Keras | OpenCV | CNN

- Developed a CNN-based image classification solution using retinal fundus images.
- Created image preprocessing workflows using OpenCV.
- Trained and evaluated deep learning models using classification metrics.
- Explored computer vision techniques for healthcare-related image analysis.

Real-Time Hand Gesture Recognition System | Python | OpenCV | MediaPipe | TensorFlow/Keras

- Developed a real-time hand gesture recognition system using webcam input.
- Used MediaPipe to detect and extract hand landmarks.
- Processed real-time video streams using OpenCV.
- Developed gesture-classification logic based on extracted hand features.

Hyperparameter Optimization Using Optuna | Python | Optuna | Scikit-learn

- Built automated hyperparameter optimization workflows using Optuna.
- Compared optimized machine learning models against baseline configurations.
- Analyzed model performance and parameter importance to improve model selection.

QR Code Generator Web & Android Application | Python | Streamlit | QR Code | Android | WebView

- Developed a QR code generation application with a simple user-facing interface.
- Implemented QR generation workflows and interactive controls for generating codes.
- Converted the web-based application into an Android application using a WebView-based architecture.
- Worked through application packaging, Android integration, testing, and deployment workflows.

TECHNICAL SKILLS

Programming: Python, SQL, Java, C, JavaScript, TypeScript

Machine Learning: Supervised Learning, Unsupervised Learning, Classification, Regression, Clustering, Feature Engineering, Model Selection, Cross-Validation, Hyperparameter Optimization, Predictive Modeling

Deep Learning & Artificial Intelligence: Deep Learning, Neural Networks, Convolutional Neural Networks, Image Classification, Computer Vision, Natural Language Processing, AI Application Development

Computer Vision: OpenCV, MediaPipe, Image Processing, Webcam/Video Processing, Object/Activity Detection, Real-Time Vision Applications

Machine Learning & Data Libraries: TensorFlow, Keras, Scikit-learn, Pandas, NumPy, XGBoost, Optuna, Matplotlib, SciPy

Backend & APIs: FastAPI, Flask, REST APIs, Uvicorn, API Integration, Model Serving, Backend Integration

Frontend & Application Development: Next.js, React, TypeScript, Tailwind CSS, JavaScript

Deployment & Cloud/Web Platforms: Vercel, Render, Netlify, GitHub Pages, Streamlit, Cloudflare Tunnel

Developer Tools & Platforms: Git, GitHub, Docker, MLflow, Jupyter Notebook, VS Code, Firebase, Android Studio

Core Competencies: Machine Learning, Deep Learning, Computer Vision, NLP, Python Development, AI Application Development, Model Evaluation, Data Preprocessing, Feature Engineering, Model Integration, REST API Development, Application Deployment, Problem Solving

DEPLOYMENT & APPLICATION EXPERIENCE

- Deployed and hosted web applications using Vercel, Render, Netlify, GitHub Pages, and Streamlit. - Used Cloudflare Tunnel for remote access and testing of locally running applications. - Worked with Git and GitHub for source control, repository management, and deployment workflows. - Used Docker for application containerization and development environments. - Built applications spanning machine learning models, backend APIs, frontend interfaces, and deployment infrastructure. - Experience troubleshooting application-level, API, deployment, and integration issues.

PROFESSIONAL STRENGTHS

- AI/ML Application Development - Computer Vision Systems - Machine Learning Model Development - Deep Learning - Python Backend Development - REST API Development - AI Model Integration - Full-Stack AI Applications - Application Deployment - Data Preprocessing & Feature Engineering - Model Evaluation & Optimization - Real-Time Video Processing - Problem Solving & Debugging - Cross-functional Frontend, Backend & AI Integration

PROFESSIONAL LINKS

LinkedIn: [linkedin.com/in/sreedev514162/](https://www.linkedin.com/in/sreedev514162/) GitHub: github.com/Sreedev-a Portfolio: sreedev-a.github.io