

Tejas Patil

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PROFESSIONAL SUMMARY

Results-driven AI/ML Engineer with 1+ year of experience delivering production-grade computer vision, generative AI, and IoT solutions. Expertise in deep learning, LLM, Raspberry Pi.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, SQL, HTML/CSS, Shell Scripting

AI/ML Technologies: Machine Learning, Deep Learning, Computer Vision, Generative AI, NLP, LLMs

Frameworks & Libraries: TensorFlow, PyTorch, Keras, Scikit-learn, OpenCV, Transformers, LangChain, Pandas, NumPy, Django, Flask

MLOps & Tools: Docker, Grafana, Git, GitLab, Linux

Cloud & Big Data: GCP, AWS EC2, Apache Spark, Apache Hadoop, Databricks

Databases: MySQL, PostgreSQL, MongoDB, TimescaleDB

PROFESSIONAL EXPERIENCE

Software Development Engineer (SDE-1)

June 2024 – Present

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Pune, India

- Engineered ML monitoring infrastructure using Grafana and TimescaleDB, reducing system downtime by 30% and accelerating issue resolution by 25% for production AI services
- Architected facial recognition system using InsightFace with optimized embedding comparison, achieving 98% accuracy in real-time detection and verification workflows
- Enhanced dataset quality by designing and training custom GAN models, improving downstream model training accuracy by 40% through synthetic data augmentation
- Fine-tuned Stable Diffusion and ControlNet models for dental smile correction, increasing prediction accuracy by 25% and reducing manual adjustment time
- Migrated ML inference workloads to Raspberry Pi 5 edge devices, improving processing speed by 20% and delivering real-time visual feedback for enhanced user experience
- Integrated LiDAR sensors and multi-microphone arrays via ESP32 for precise distance measurement and voice processing, enabling accurate object positioning and real-time audio capture
- Built production LLM chatbot using LangChain and transformers, automating 60% of customer queries and reducing average response time by 45%
- Developed end-to-end voice agent with custom wake-word detection, Faster-Whisper ASR, Qwen3 on-device reasoning, and Google TTS, achieving sub-2000ms latency for real-time conversational AI

PROJECTS

YouTube AdView Prediction System

Python, XGBoost, Flask, Scikit-learn

- Built an end-to-end ML pipeline on a 15k+ video dataset using XGBoost (88% accuracy) with feature engineering and hyperparameter tuning, and deployed a scalable Flask REST API on Render with automated model versioning.

Automated Web Scraping API

Flask, MongoDB, AWS EC2, BeautifulSoup

- Designed and deployed a production-grade web scraping API with automated cron-based data pipelines, integrating MongoDB for efficient storage and 30-day refresh cycles on AWS EC2.

EDUCATION

Master of Computer Applications

Sri Balaji University

July 2023 – May 2025

CGPA: 8.02/10.0

Bachelor of Business Administration in Computer Applications

Modern College of Commerce and Computer Studies

July 2020 – May 2023

CGPA: 9.02/10.0

CERTIFICATIONS

Big Data Engineering (Hadoop, Spark, Databricks, Azure, GCP) | Python & Data Science | Machine Learning | Generative AI & Deep Learning