

YUVARAJ S

Machine Learning Engineer — Software Engineer

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Aspiring Machine Learning Engineer with a passion for building scalable AI solutions and real-time applications.

Technical Skills

Languages: Python, JavaScript, HTML, CSS

ML/AI: TensorFlow, PyTorch, Scikit-learn, OpenCV, BERT, Neural Networks, Computer Vision, NLP

Web/Backend: Django, REST API, MongoDB

Tools/Cloud: Git, AWS, Jupyter, Postman, CI/CD

Experience

Machine Learning Engineer

July 2024 – Present

Techso IT LLC, USA

- Developed real-time audio transcription models with **80% accuracy** using TensorFlow and Python
- Built NLP summarization systems reducing content processing time by **40%** with BERT implementation
- Integrated ML pipelines with Django REST APIs for production deployment serving

AI/Software Developer

Oct 2024

Flipkart Robotic Challenge (National)

- Integrated **5 AI models** in a Website
- Developed RESTful APIs with **sub-100ms latency** for real-time inference and data processing

ML Developer

Sep 2024

Amazon ML Challenge (National)

- Built NLP models for product attribute extraction with **78% accuracy** using transformer architectures
- Implemented BERT-based feature extraction for e-commerce categorization with **15% improvement**

Key Projects

Library Access Control System | Python, TensorFlow, Django, Android Studio, AndroidX

Nov 2024

- Developed Django REST API backend with MySQL for user management and access logging
- Implemented real-time video processing pipeline with OpenCV for multi-camera integration
- Created admin dashboard with analytics showing **25% improvement** in access management efficiency

FlipIQ AI E-Commerce Platform | PyTorch, HTML, CSS, JavaScript, Django

Oct 2024

- Implemented computer vision for product similarity matching with **88% accuracy** using ResNet50
- Built HTML, CSS, JavaScript frontend with Django Framework backend handling **1000+ concurrent users**

EchoFlow Audio Analysis | TensorFlow, BERT, Django

Jul 2024

- Designed real-time audio transcription and sentiment analysis pipeline with **95% accuracy**
- Built BERT-based sentiment analysis with **87% accuracy** for customer feedback classification
- Developed Django API for audio data storage and retrieval
- Created automated reporting system generating insights from **10K+ audio files** daily

Education

B.Tech in Artificial Intelligence and Machine Learning

Expected: May 2026

Saveetha Engineering College

Chennai, India

- Relevant Coursework: Deep Learning, Computer Vision, Natural Language Processing, Data Structures, Web Development - Django Framework
- CGPA: **8.3/10** — Dean's List recipient for academic excellence in AI/ML subjects

Certifications

AWS Certified AI Practitioner (Feb 2025) — **NVIDIA LLM Customization** (May 2025)

Oracle Cloud AI Foundations (Jan 2025) — **Deep Learning Specialization** (Nov 2023)

TensorFlow Developer Certificate (Dec 2024)