Vimal Raj

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Chennai, Tamil Nadu, India

Summary

AI/ML Engineer with 2+ years of experience in building, training, and deploying machine learning models. Skilled in Python, TensorFlow, PyTorch, scikit-learn, and NLP, with hands-on experience in LLM fine-tuning, prompt engineering, and transformer-based architectures. Proficient in writing automation scripts for metric generation and data preprocessing.

Work Experience

AI/ML Engineer – Aastra Technologies　　　　　　　　　　　　　　Jul 2025 - Present

– Build, train, and maintain systems based on machine learning and NLP
– Write machine learning algorithms based on transformers for text classification
– Conduct experiments, evaluate model performance, and suggest improvements
– Prepare automation scripts for metric generation, file conversions, and data preprocessing

Projects

Hotel WhatsApp ChatBot Guest Assistant　　　　　　　　　　　　　　　　　GitHub

NLP-powered middleware bridging WhatsApp Business API with hotel systems. Implements text processing pipelines for intent classification and entity extraction. **Tech:** Python, NLP, FastAPI, WhatsApp API, Webhooks

AI Zero – Intelligent Enterprise Operating System　　　　　　　　　　　　　GitHub

Business platform with transformer-based models for natural language querying and workflow automation. Built ML pipelines using scikit-learn and PyTorch. **Tech:** Python, PyTorch, Transformers, FastAPI, NLP

Event Horizon AI – Multimodal AI Assistant　　　　　　　　　　　　　　　GitHub

Multimodal AI assistant processing text, images, and audio with LLM integration and prompt engineering. Features persistent memory across sessions. **Tech:** Python, TensorFlow, LLM Prompting, FastAPI, SQLite

Education

2025 - 2027	**MCA** at SRM IST Chennai	(Expected Dec 2027)
2023 - 2024	**Data Science & AI Certification** at Besant Technologies	(Grade: A)

Skills

AI & Machine Learning	TensorFlow, PyTorch, scikit-learn, XGBoost, LightGBM, Deep Learning, NLP, Transformers
Programming & Data	Python, NumPy, Pandas, Jupyter Notebooks, Feature Engineering, Data Preprocessing
Backend & APIs	FastAPI, REST APIs, Webhooks, SQLAlchemy, SQL, PostgreSQL
Tools & Experimentation	TensorBoard, Weights & Biases (W&B), Git, GitHub, Jenkins, Docker
Model Optimization	ONNX, TensorRT, TFLite, Edge AI, LLM Fine-tuning, Prompt Engineering