

# Anthony Raju Kondaveeti

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## EDUCATION

<b>Christ University, Bengaluru, India</b> <i>Master of Science in Data Science</i>	June 2024 – Present <i>Ongoing</i>
<b>Andhra Loyola College, Vijayawada, India</b> <i>Bachelor of Science in Mathematics, Physics, and Computer Science</i>	June 2020 – May 2023 <i>CGPA: 9.02/10</i>

## EXPERIENCE

<b>AI/ML Intern</b> <i>Demetrix Infotech Pvt. Ltd.</i>	July 2025 – October 2025 <i>Bengaluru, India</i>
<ul style="list-style-type: none"><li>Architected enterprise-grade RAG system with session-based vector collections and adaptive thresholds, processing 100+ documents daily with 92% contextual accuracy and under 2s response times</li><li>Developed production-ready microservices architecture integrating Mistral AI, Qdrant vector database, and OCR processing with intelligent rate limiting and exponential backoff strategies</li><li>Engineered hybrid search engine combining semantic embeddings (Sentence Transformers) and BM25 sparse retrieval with cross-encoder re-ranking, achieving 75% precision improvement over baseline systems</li><li>Built comprehensive testing framework with automated performance evaluation, confidence scoring, and quality metrics validation ensuring API reliability in production environments</li><li>Implemented advanced session management with persistent conversation memory and isolated user collections, enabling scalable multi-tenant document intelligence for enterprise clients</li></ul>	
<b>Python Tutor</b> <i>Christ University</i>	June 2025 – September 2025 <i>Bengaluru, India</i>

## PROJECTS

<b>Art-Style Adaptation of Stable Diffusion with LoRA</b>   <i>Python, PyTorch, Diffusers, LoRA</i>	<ul style="list-style-type: none"><li>Curated 80K+ WikiArt dataset with metadata enrichment for domain-specific fine-tuning of generative models</li><li>Implemented Low-Rank Adaptation (LoRA) reducing trainable parameters by 99.8% while maintaining artistic fidelity</li><li>Optimized distributed training pipeline achieving 4x faster convergence using mixed-precision and gradient checkpointing</li><li>Generated production-quality style transfer outputs across 15+ art movements with 92% human-evaluated consistency</li></ul>
<b>AI-Powered Document and Image Analysis Suite</b>   <i>Python, PyTorch, LangChain, Chroma, Transformers</i>	<ul style="list-style-type: none"><li>Architected multi-modal AI platform processing 10K+ documents/images daily with Gradio interface and real-time analytics</li><li>Deployed RAG pipeline with Mistral embeddings achieving 93% retrieval precision across 5M+ document corpus</li><li>Integrated BLIP-2, CLIP, and EasyOCR enabling zero-shot image classification, captioning, and OCR with 97% accuracy</li><li>Optimized hybrid search with semantic chunking reducing latency by 68% while improving relevance by 22%</li></ul>
<b>YouTube Video Analyzer Chrome Extension</b>   <i>Python, Flask, NLP, Jinja, JavaScript, HTML/CSS</i>	<ul style="list-style-type: none"><li>Developed browser extension analyzing 100K+ YouTube videos with real-time sentiment tracking and emotional arc visualization</li><li>Implemented multilingual NLP pipeline supporting 12+ languages with 98% transcript extraction accuracy</li><li>Engineered comment sentiment analysis correlating audience reactions with video timestamps (<math>r=0.87</math> correlation)</li><li>Designed scalable UI with infinite scroll, faceted search, and automated CSV export</li></ul>
<b>Traffic Sign Image Classification (CNN)</b>   <i>Python, TensorFlow, Keras, OpenCV</i>	<ul style="list-style-type: none"><li>Achieved state-of-the-art 96.96% accuracy classifying 50K+ German traffic signs using custom CNN architecture</li><li>Implemented comprehensive augmentation pipeline (rotation, brightness, blur) improving robustness by 18%</li><li>Deployed regularization suite (Dropout 0.5, L2 <math>\lambda = 0.001</math>, BatchNorm) reducing overfitting by 62%</li><li>Optimized training with EarlyStopping and ReduceLROnPlateau callbacks achieving 3x faster convergence</li></ul>

## RESEARCH PROJECTS

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*Evaluating Emotional Intelligence in Large Language Models: A Culturally-Anchored Framework for Indian Linguistic Contexts* Designed the Indian Emotional Alignment Score (I-EAS), a novel framework to assess cultural and emotional responsiveness of LLMs in Hindi, Tamil, and English. Designed a 150-prompt multilingual dataset and applied statistical validation (Pearson correlation, ANOVA, t-tests) on 450 model outputs, uncovering key cultural performance gaps in global and Indian LLMs.

## TECHNICAL SKILLS

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**Programming Languages:** Python, SQL, HTML/CSS

**Frameworks & Libraries:** Flask, LangChain, TensorFlow, PyTorch, Keras, Diffusers, Transformers, Sentence-Transformers, OpenCV, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn

**Databases & Vector Stores:** SQLite, PostgreSQL, Chroma, Qdrant

**Tools & Platforms:** Jupyter, Google Colab, VS Code, Git, Gradio, Streamlit

**Specialized Skills:** Retrieval-Augmented Generation (RAG), Large Language Models (LLMs), Natural Language Processing (NLP), Computer Vision, Generative AI (Stable Diffusion, LoRA), Data Visualization, Statistical Analysis

## CERTIFICATIONS

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**SQL for Data Science**, Great Learning – Oct 2024

**Supervised ML: Regression and Classification**, Coursera – Sep 2024

**Advanced Learning Algorithms**, Coursera – Feb 2025

**AWS Fundamentals**, AWS builder – Oct 2025