

KUPPAM AJITH

AI & Data Science Engineer | Python | Machine Learning
| NLP | RAG | LLMs

CONTACT ME

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📍 Hyderabad, India

EDUCATION

B.Tech, Artificial Intelligence And Data Science Engineering AI & DS

St. Martin's Engineering College

CGPA: 8.15 2022-2026

Intermediate

Narayana Jr College

86.1% 2020-2022

SSC

Narayana High School

CGPA: 10.0 2020

SKILLS

- **Programming Languages:** Python, Java
- **AI/ML Libraries:** TensorFlow, Keras, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Sentence Transformers
- **Web Technologies:** HTML, Tailwind CSS, React, Node.js, RESTful APIs
- **Game Development:** Unity, Godot, Pygame
- **Tools:** Git, GitHub, Docker, Qoder, Copilot, Render, Vercel, Netlify, FAISS, Groq API
- **Other:** Machine Learning, Data Analyst, Vibe Coder/Prompt Engineer

LANGUAGES

- ENGLISH (Proficient)
- TELUGU (Native)
- HINDI (Proficient)

SUMMARY

AI and Data Science Engineer with a B.Tech in Artificial Intelligence and Data Science and hands-on experience in machine learning, NLP, RAG systems, and AI-powered applications. Proficient in Python and experienced with PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy, FAISS, and LLM APIs. Built and deployed practical AI solutions spanning sentiment analysis, predictive modeling, document intelligence, AI assistants, and automated workflows. Currently contributing to AI pipeline development while continuously exploring local LLMs, model optimization, and emerging AI technologies.

WORK EXPERIENCE

Artificial Intelligence Intern

KALNET GLOBAL- Remote

March. 30, 2026 – Present

- I am working on AI pipelines.
- I work in a team where we collaborate to create a AI pipeline.

Data Science Intern

Hex Softwares - Remote

April. 15, 2026 – May 15,2026

- Built a machine learning classification model to predict Titanic passenger survival using Python and Scikit-learn.
- Analyzed COVID-19 datasets to identify trends and visualize pandemic progression using Pandas, NumPy, and Matplotlib.
- Developed an interactive YouTube analytics dashboard with Streamlit and integrated the YouTube Data API for real-time insights.

SaiKet Systems - Remote

April. 17, 2026 – May 17,2026

- Developed an end-to-end Telecom Customer Churn Prediction system using Python.
- Trained and evaluated multiple machine learning models, including Logistic Regression, Decision Tree, Random Forest, Gradient Boosting, KNN, and SVM, with hyperparameter tuning.
- Achieved 79.8% accuracy and 0.843 AUC-ROC, identifying key churn factors such as contract type, tenure, fiber optic service, and monthly charges.

Qskill - Remote

January. 10, 2026 – February 10,2026

- Classifying iris flowers into three species (Setosa, Versicolor, Virginica) based on measurements of their petals and sepals.

Hopscotch Games - Remote

- Designed and implemented AI-driven workflows using ChatGPT for the automated generation of game assets and narrative content, significantly speeding up the development pipeline.
- Leveraged AI tools to prototype and develop interactive game mechanics, including the "Petrograd Political Simulator" and "Mystery Time."
- Used Claude and other AI models to build some fun interactive games and AI apps.

Machine learning Intern

Genz Educate Wing - Remote

January. 10, 2025 – March 10, 2025

- Credit Card Fraud Detection – Built a Random Forest model to detect fraudulent transactions in an imbalanced dataset; applied SMOTE and cross-validation to ensure robustness, achieving ~99% test accuracy.

Niltech Edu - Onsite

December. 12, 2023 – December 13, 2023

- Developed predictive models for bank-loan grant approvals and weather forecasting using SVM and Keras.

PROJECTS

AI-POWERED PROJECTS

Song Portals (Made using Prompt Engineering)

- AI-Assisted Web Development (Song Portals) Leveraged qoder, an AI coding assistant, to rapidly develop and deploy two full-stack song management websites: MPH Songs and Choir Portal. Utilized the AI agent to generate boilerplate code, debug complex issues, and implement features like multilanguage support and real-time search, reducing development time by an estimated 30%.

Insurance Policy Analysis System | HackRx 6.0 (Bajaj Finserv Hackathon)

- Built an AI-powered RAG system to analyze and query complex insurance documents using natural language.
- Implemented semantic search with FAISS and integrated Groq API for fast, real-time LLM responses.
- Optimized system cost by routing common FAQs through vector DB retrieval, reducing unnecessary LLM calls.
- Added real-time usage tracking to display token consumption, request limits, and API metrics for transparency.
- Developed end-to-end solution with REST APIs, document upload pipeline, and responsive frontend.

AI study explainer

- Built an AI-powered topic explanation application using Gemini API to generate detailed, structured responses based on user input.
- Implemented a provider failover system with Gemini as the primary model and Groq API as a fallback, ensuring high availability and uninterrupted response generation.
- Developed API usage control with a 30 requests/day rate limit, improving resource management and preventing excessive API consumption.
- Designed and integrated a minimal AI chat interface (text input + generate workflow) to deliver fast, user-driven AI explanations for arbitrary topics.

MACHINE LEARNING PROJECTS

Facebook Sentiment Analysis using NLP

- Developed a high-accuracy (97%) sentiment analysis model using MiniLM-L6-H384, trained on a 130,000+ row dataset of labeled Facebook comments, including emoji-augmented data. Optimized training and inference on an NVIDIA RTX 4060 GPU with PyTorch, achieving ~5–10 ms prediction latency. Deployed as an interactive Streamlit web app, handling text and emoji inputs with custom class-weighted loss for imbalanced data (Positive: 63%, Negative: 23%, Neutral: 14%). Integrated Twitter-Roberta to boost emoji understanding in sentiment analysis. Improved overall accuracy to ~98% on the test dataset.

Predictive Maintenance for Industrial Equipment

- Developed a Random Forest Classifier to predict equipment failures, achieving 99.85% test accuracy on a 10,000-record dataset. Preprocessed data using Pandas and scikit-learn, applying feature encoding, scaling, and SMOTE to handle class imbalance. Analyzed feature importance, reducing the featureset by 25%, and visualized results with Matplotlib and Seaborn. Validated model robustness with 5-fold cross-validation, attaining a mean accuracy of 99.91% and a test set accuracy of 99.85%

Fingerprint-Based ATM System

- Engineered a biometric pattern-matching system for fingerprint authentication using binary data comparison techniques. Designed and implemented a NoSQL data pipeline using MongoDB and PyMongo to manage user profiles, transaction logs, and authentication metadata. Built real-time transaction processing logic, dynamically computing account balances from chronological transaction histories. Built data validation and anomaly-prevention logic to ensure consistency, security, and transactional accuracy.

IN DEVELOPMENT

Jarvis AI – Personal Voice Assistant

- Developed a voice-controlled AI assistant with wake word detection and offline speech recognition.
- Integrated local LLM for private, offline natural language processing.
- Implemented system automation commands (file handling, web browsing, keyboard control).
- Designed modular architecture with separate components for speech recognition, command processing, and text-to-speech.

Cross-Platform Auto Deployment Agent

- Developed an intelligent deployment agent using Ollama to automate the entire hosting process for various web projects.
- Engineered the agent to automatically scan directories, detect project types (e.g., React, Node.js, Flask), select the optimal hosting platform, and deploy using platform-specific CLIs.

OPEN-SOURCE CONTRIBUTIONS

KubeOrch - Contributor

- Improved KubeOrch's RegistryService by introducing an injectable HTTP client seam, preserving the 10-second production timeout and enabling deterministic testing across Docker Hub, GHCR, ACR, and Custom registries.
- Added table-driven tests with a fake HTTP client covering success and transport-error scenarios; verified with go vet and go test ./services/... and submitted PR #135.

index-tts – Fork Maintainer

- Added Telugu Language Support

Diffusion Pen – Fork Maintainer

- Added new handwriting style to the AI art generation toolkit.
- Enhancing feature set for style diversity and usability.

CERTIFICATIONS

- How to Build Predicting Models - Niltech Edu
- Learnt Java & Its Industry application - Path Creators
- Artificial Intelligence & Data Science - GenZ Educatewing
- Hack-AI-Thon – Hack2Skill (Participation) – 2024
- QSkill-Certificate of completion-13/feb/2026
- Internship completion Certificate - KALNET GLOBAL