

# Sowmya Kanithi

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## PROFESSIONAL SUMMARY

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AI/ML Engineer with hands-on experience in Machine Learning, Natural Language Processing (NLP), Computer Vision, and Large Language Models. Experienced in building Retrieval-Augmented Generation (RAG) pipelines and AI agents using FAISS, ChromaDB, LLaMA, and Hugging Face Transformers. Skilled in deploying AI solutions with Streamlit, Gradio, and Hugging Face Spaces. Enthusiastic and continuous learner with a strong focus on upskilling and exploring cutting-edge global technologies. Seeking entry-level roles as Machine Learning Engineer, AI/ML Engineer, GenAI, Data Scientist, or Python Developer.

## TECHNICAL SKILLS

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- **Programming:** Python, C/C++, SQL, HTML/CSS, JavaScript
- **Machine Learning & AI:** Scikit-learn, Supervised/Unsupervised Learning, Feature Engineering, Cross-Validation, XGBoost, Model Evaluation, Anomaly Detection
- **Deep Learning & Computer Vision:** PyTorch, TensorFlow, CNNs, YOLOv8, OpenCV
- **NLP & LLMs:** Hugging Face Transformers, LangChain, RAG, FAISS, ChromaDB, LLaMA, Qwen, FLAN-T5, Embeddings, NLTK, SpaCy, Gensim, Prompt Engineering
- **Data Analysis & Visualization:** Pandas, NumPy, EDA, Matplotlib, Seaborn
- **Tools & Deployment:** Git, GitHub, VS Code, Jupyter Notebook, Google Colab, PyCharm, Streamlit, Gradio, Hugging Face Spaces

## INTERNSHIP EXPERIENCE

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- **Machine Learning Intern** May 2025 – Aug 2025  
*Talent-Trek e-Learning, Bangalore (Remote)*
  - Preprocessed and analyzed datasets with Pandas and NumPy.
  - Built ML models achieving 88–95% accuracy.
- **Machine Learning Intern** Aug 2024 – Jan 2025  
*InternshipStudio, India (Remote)*
  - Performed EDA, data cleaning, and feature selection.
  - Built end-to-end ML pipelines improving model performance.

## PROJECTS

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- **AI News Credibility Analyzer**  
*Python, Scikit-learn, TF-IDF, Hugging Face Transformers, Qwen1.8B, Gradio, ChromaDB* GitHub — Live Demo
  - Hybrid system combining TF-IDF ML, rule-based scoring, and Qwen1.8B LLM for news credibility. A Multi Layered AI System.
  - Explainable AI to classify REAL or FAKE with confidence scoring and ChromaDB memory; 95–98% accuracy.
- **Offline LLaMA-Powered Voice AI Assistant**  
*Python, Ollama, LLaMA 3.2, SpeechRecognition, PyAudio, pyttsx3, FAISS, Sliding Window Conversational Memory* GitHub
  - Built offline voice assistant integrating STT, LLaMA 3.2, TTS with contextual memory.

## EDUCATION

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- **TiHAN IIT Hyderabad x Masai (AI & ML Course)** Hyderabad, Telangana  
*AI/ML Course with Drone Technologies* July 2025 – Feb 2026
- **Rajiv Gandhi University of Knowledge Technologies, IIIT Ongole** Prakasam, AP  
*B.Tech in Electronics and Communication Engineering, CGPA: 8.55* Jan 2022 – May 2026
- **Rajiv Gandhi University of Knowledge Technologies, IIIT Ongole** Prakasam, AP  
*Pre-University Course (PUC - MPC), CGPA: 9.0* Jan 2020 – May 2022

## VOLUNTEER EXPERIENCE

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- **Student Coordinator – Department Placement Committee & Technova:** Coordinated placement activities and internship communications & Led technical workshops and competitions, managing students.
- **Finance and Budgeting Coordinator – Ornate'25:** Managed budgeting, expense tracking, and financial planning.