

# Sowmya Kanithi

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LinkedIn GitHub Hugging Face Spaces

## PROFESSIONAL SUMMARY

Motivated final-year BTech student with strong hands-on experience in Machine Learning, Data Science, and LLM-based application development. Proficient in Python, data preprocessing, feature engineering, model training, and evaluation across NLP, Computer Vision, and predictive modeling. Experienced in building and deploying end-to-end ML and RAG applications using LLaMA, FAISS, Streamlit, and Hugging Face Spaces. Seeking entry-level roles as a Machine Learning Engineer, AI/ML Engineer, Data Scientist, or Python Developer.

## TECHNICAL SKILLS

**Programming Languages & Databases:** Python, C/C++, HTML/CSS, SQL

**Machine Learning:** NumPy, Pandas, scikit-learn, Matplotlib, Seaborn

**Deep Learning & NLP:** TensorFlow, NLTK, SpaCy, Hugging Face Transformers, YOLO, OpenCV

**LLMs & RAG:** LangChain, Retrieval-Augmented Generation (RAG), FAISS, Sentence Transformers, Ollama, Prompt Engineering

**Web Apps & Deployment:** Streamlit, Gradio, Hugging Face Spaces

**Tools:** PyCharm, VS Code, Jupyter Notebook, Google Colab, Git/GitHub, Windows

**Soft Skills:** Leadership, Communication, Analytical Thinking, Time Management, Adaptability

## INTERNSHIP EXPERIENCE

### Machine Learning Intern

*Talent-trek e-Learning, Bangalore*

Remote

May 2025 – Aug 2025

- Worked on real-world datasets involving preprocessing, feature engineering, and model evaluation.
- Developed and optimized ML models using Python and scikit-learn to improve prediction accuracy.

### Machine Learning Intern

*InternshipStudio, India*

Remote

Aug 2024 – Jan 2025

- Performed EDA, data preprocessing, and feature selection on structured datasets.
- Built supervised ML models with hyperparameter tuning and validation techniques.

## PROJECTS

### Local Conversational AI with RAG (LLaMA 3.2 via Ollama)

GitHub

- Designed an offline RAG-based conversational AI using LLaMA 3.2 via Ollama, FAISS, and embeddings.
- Enabled fast, context-aware responses for both general and document-based queries.

### RAG PDF Chatbot (Hugging Face Spaces)

GitHub — Live

- Developed and deployed a multi-document RAG system supporting PDF, TXT, and DOCX files.
- Integrated Hugging Face Transformers, LangChain, FAISS, and Streamlit for grounded QA.

### Product Discovery Recommendation Engine (ML/NLP)

GitHub

- Built an ML-based product recommendation system using semantic similarity techniques.
- Implemented cosine similarity and vector representations for improved discovery accuracy.

### YOLO Object Detection

GitHub

- Implemented real-time multi-object detection using YOLOv4 with OpenCV and Python.
- Achieved accurate bounding box localization and confidence-based classification.

## EDUCATION

### Rajiv Gandhi University of Knowledge Technologies, IIIT Ongole

Prakasam, AP

*B.Tech in Electronics and Communication Engineering*

Jan 2022 – May 2026

CGPA: 8.55

### Rajiv Gandhi University of Knowledge Technologies, IIIT Ongole

Prakasam, AP

*Pre-University Course (PUC - MPC)*

Jan 2020 – May 2022

CGPA: 9.0

## VOLUNTEER EXPERIENCE

- **Student Coordinator** – Managed departmental placements and internships as part of the Standing Committee.
- **Finance and Budgeting Committee Coordinator** – Managed institute budget planning for Ornate'25.
- **Technova Student Coordinator In-Charge** – Organized technical events, workshops, and competitions.