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# Sowmya Kanithi

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## Objective

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Motivated Machine Learning and Python developer with strong foundations in data analysis, algorithm development, and AI integration. Experienced in applying machine learning techniques to real-world projects with a focus on problem-solving and efficiency. Recognized for leadership, teamwork, and continuous learning. Seeking a role as an ML Engineer, Data Scientist, or Python Developer with AI integration in an innovation-driven environment. .

## SKILLS

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- **Programming Languages:** Python, C/C++ , HTML/CSS
- **Machine Learning:** Supervised and Unsupervised Learning , Model Training , Evaluation , Regression, Classification, Clustering
- **Natural Language Processing:** Text Preprocessing, Tokenization, Vectorization, Sentiment Analysis
- **Libraries and Frameworks:** NumPy, Pandas, Matplotlib, Scikit-learn, NLTK, YOLO, OpenCV
- **Tools and Platforms:** Jupyter Notebook, Google Colab, Streamlit, , Gradio, PyCharm, VS Code, Git, GitHub , MATLAB, Windows
- **Databases:** SQL
- **AI Technologies:** Hugging Face Spaces
- **Soft Skills:** Leadership, Communication , Analytical Thinking , Time Management, Budgeting Finance, Adaptability, Organizing

## Education

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| • Bachelor Of Technology(B.Tech E.C.E)                    | 2022-2026 Expected | CGPA: 8.31 |
| Rajiv Gandhi University Of Knowledge Technologies, ONGOLE |                    |            |
| • Pre University Course-(PUC M.P.C)                       | 2020-2022          | CGPA: 9.0  |
| Rajiv Gandhi University Of Knowledge Technologies, ONGOLE |                    |            |

## Internship Experience

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<b>Machine Learning Intern : Talent Trek e-learning</b> (Remote)	May 2025 – Aug 2025
<b>Project:</b> -Developed and Gained hands-on experience with scikit-learn, pandas,NLP,streamlit and model evaluation techniques	
<b>Machine Learning Intern : InternshipStudio</b> (Remote)	Aug 2024 – Jan 2025
<b>Project:</b> -Worked on building and evaluating ML models with 95 percent accuracy for supervised learning tasks (classification regression)	

## Projects

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### **Twitter Sentiment Analysis NLP – Python, NLP | GitHub |**

- Built a sentiment analysis system on Twitter data using text preprocessing, tokenization, and vectorization.
- Classified tweets as positive or negative with accuracy

### **AgriPredict – Crop Recommendation – Python, ML | GitHub |**

- Developed a predictive model to suggest optimal crops based on environmental data.
- Applied machine learning algorithms to deliver actionable insights for smarter, sustainable farming.

### **Object Detection YOLO – Python, OpenCV, YOLOv4** | [GitHub](#)

- Implemented a real-time object detection system to detect multiple objects with high precision.
- Tested and evaluated the system on multiple datasets to ensure high detection accuracy across varied environments.

### **Open-Source Multi-Agents – Python, Gradio** | [GitHub](#)

- Created a multi-agent AI system with a user-friendly GUI.
- Enabling seamless agent collaboration without external API dependencies.

## **Volunteer Experience**

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**Student Coordinator:** Department Higher Education Cell

- Department of Placements and Internships Standing Committee

**Finance and Budgeting Committee Coordinator:** Managed and organized institute budget matters in Ornate'25 IIIT ONG.

**Technova Student Coordinator Incharge:** Organized technical events in department