

# Sowmya Kanithi

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## Professional Summary

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Proactive and results-driven Machine Learning Engineer with hands-on experience in developing and deploying real-world ML applications using Python, Streamlit and scikit-learn. Proficient in computer vision (YOLO, OpenCV), NLP (NLTK), and deep learning with a portfolio of deployed projects spanning agriculture, healthcare, surveillance, and sentiment analysis. Currently exploring LLMs and conversational AI to build scalable AI solutions. Seeking an entry-level role in ML, NLP, or AI-driven product development within an innovative and fast-paced team.

## Tools Technologies

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- **Programming Languages:** Python, C, C++, HTML, SQL
- **Machine Learning and NLP:** Supervised Learning, Deep Learning, NLP, Sentiment Analysis, Classification, Regression
- **Libraries and Frameworks:** NumPy, pandas, Matplotlib, Seaborn, OpenCV, scikit-learn, TensorFlow, NLTK, YOLOv4
- **Tools and Platforms:** Jupyter Notebook, Google Colab, Streamlit, PyCharm, Visual Studio Code, Git, GitHub, Dev C++, MATLAB, Windows
- **Databases:** SQL
- **Soft Skills:** Leadership, Analytical Thinking, Ownership, Mentorship, Team Collaboration, Event Management, Time Management, Budgeting Finance, Adaptability, Networking, Organizing

## Education

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| • <b>Bachelor Of Technology (B.Tech E.C.E)</b><br>Rajiv Gandhi University Of Knowledge Technologies, ONGOLE | <b>2022-2026</b> | <b>CGPA: 8.4</b> |
| • <b>Pre University Course (PUC M.P.C)</b><br>Rajiv Gandhi University Of Knowledge Technologies, ONGOLE     | <b>2020-2022</b> | <b>CGPA: 9.0</b> |

## Internship Experience

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

## Projects

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### AI Based Weapon Detection Surveillance System | [GitHub](#) |

-Awarded 2nd Prize for Project Presentation at Technova'25, IIIT Ongole, honored by the Director of IIIT Ongole campus. Utilized YOLOv8 for high-speed, accurate detection. Created an intuitive Streamlit interface for live video monitoring.

### Crop Recommendation System (SmartAgri) | [GitHub](#) |

Built a machine learning model to recommend optimal crops based on soil and weather parameters to enhance agricultural productivity. Achieved 98 percent prediction accuracy using classification algorithms.

### **Brain tumor classification using deep learning(CNN)** | [GitHub](#) |

Implemented a convolutional neural network (CNN) to classify MRI images of brain tumors. Achieved 98 percent accuracy with image preprocessing and data augmentation.

### **Twitter Sentiment Analysis** | [GitHub](#) |

Designed an NLP pipeline to classify tweets into positive and negative sentiments. Processed and analyzed text tweets and demo tweets with 90 percent classification accuracy

## **Honours and Certifications**

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- Deep learning for Developers [Certificate]
- OpenCV Certifications from Skillsoft and Simplilearn | [Certificate](#) |

## **Volunteer Experience**

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**Student Coordinator:** Department Higher Education Cell and 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