

SWETHA R

Aspiring Data Scientist | AI Enthusiast | Python Developer

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💡 PROFESSIONAL SUMMARY

Detail-oriented **Data Scientist** with expertise in **Python, machine learning, and data visualization**. Skilled in **data preprocessing, feature engineering, and deploying AI solutions**. Proven ability to enhance model accuracy and **support data-driven decisions**. Seeking to contribute to innovative projects in a challenging environment.

💡 TECHNICAL SKILLS

Programming & Tools:

Python, Jupyter Notebook, Google Colab, Flask, Git, Pandas, NumPy, Scikit-learn, Tensorflow

Machine Learning:

Data Preprocessing, Feature Engineering, EDA, Regression, Classification, Model Evaluation

Visualization & BI Tools:

Power BI, Tableau, MS Excel, Matplotlib

Technologies:

Machine Learning, Deep Learning, Gen AI, Hugging Face, Ollama

📁 PROJECTS

Skin Disorder Classification,CNN	🔗	11/2025 – 11/2025
• Built multi-class CNN achieving 9% improved accuracy. • Automated images cleaning, augmentation, and training workflow.		
Earthquake Damage Prediction, Python	🔗	11/2025 – 11/2025
• Earthquake Damage Prediction, Python Built Random Forest classifier achieving 87% accuracy with strong EDA. • Improved precision and recall using class balancing and tuning.		
Custom Knowledge Base Chatbot Streamlit, Python, Google Gemini AI, Pandas, Matplotlib, Seaborn	🔗	03/2025 – 05/2025
• Built an AI-driven Streamlit web application to analyze, clean, and visualize tabular data (CSV/Excel). • Integrated Google Gemini model to provide conversational data querying and automated insights .		
Rice Leaf Disease Detection, CNN	🔗	10/2025 – 10/2025
• Implemented tensorflow, CNN by achieving 92% validation accuracy through augmentation. • Designed structured data preprocessing and image feeding pipeline		

💼 PROFESSIONAL EXPERIENCE

Certified Data Scientist Trainee, Rubixe - Al Solutions	06/2025 – 12/2025
• Completed Certified Data Scientist program with hands-on assignments. • Built ML pipelines for structured and image datasets. • Achieved 8-15% accuracy improvements through tuning and feature selection.	Bengaluru,KA
Professional Training-AI Engineer, Workcohol solutions	01/2025 – 06/2025

- Engineered AI-powered Streamlit chatbot that process NLP queries to perform automated data cleaning, visualization & exploratory analysis on user-uploaded datasets.
- Integrated Google's Gemini API to drive intelligent data interactions, enabling features like context-aware dialogue,imputation,outlier detection & dynamic report generation.

🎓 EDUCATION

B.Tech – AI & Data Science, Dhirajlal Gandhi College of Technology	2021 – 2025
Aggregate-7.6	Salem
HSC, Ramakrishna Sarada Matric Higher Secondary school	2020 – 2021
Aggregate-75%	Salem
SSLC, Golden Spark Matric Higher secondary school	2019 – 2020
Aggregate-71%	Salem

sertificates