





# Surya Charan Pallekala

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## Profile Summary

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Motivated and research-oriented B.Tech student at VR Siddhartha Engineering College, currently pursuing a Minor in Artificial Intelligence from IIT Ropar and enrolled in NxtWave's CCBP 4.0 Academy. Passionate about machine learning, data analysis, and applying AI/ML to real-world challenges. Currently working on a multi-output crop prediction project using advanced ensemble techniques.

## Education

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- **Bachelor of Technology in Computer Science and Engineering (AI & ML)**  
Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada  
CGPA: 8.17 *Sep 2023 – Present*
- **Minor in Artificial Intelligence**  
Indian Institute of Technology Ropar, Rupnagar *Jan 2025 – Present*
- **12th Grade**  
Lakshya School, Kakinada *Jun 2021 – Apr 2023*

## Experience

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- **Data Science Intern**  
Institute of Data Engineering, Analytics and Science Foundation (IDEAS), ISI Kolkata *May 2025 – Present*
  - Working on crop yield prediction using multi-output regression.
  - Utilizing Random Forest, Gradient Boosting, XGBoost, and LightGBM in Scikit-learn and Pandas.
  - Building a Streamlit-based dashboard to integrate predictions for rainfall, temperature, and yield.

## Projects

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- **Smart Budget Tracker App**  
Technologies: HTML, CSS, Node.js, React, TypeScript
  - Tracks and analyzes monthly expenses.
  - Provides budget suggestions using ML techniques.
- **Multi-Output Crop Predictor (1st Internship)**
  - Trained ensemble models for predicting rainfall, max/min temperature, and crop yield.
  - Used model comparison and evaluation techniques with visualizations using Matplotlib.

## Skills

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**Programming:** Python, Java, HTML, CSS, SQL

**Libraries & Tools:** Scikit-learn, Pandas, Matplotlib, Streamlit

**Concepts:** Machine Learning, Deep Learning, Data Visualization, Data Analysis

## Courses

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- NxtWave's CCBP 4.0 Academy – Genius Program

## Certificates

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- Programming Essentials in Python (Cisco)
- Build Your Own Website (NxtWave)
- Generative AI Workshop (NxtWave)