SOMANATH DIKSANGI

# Career Objective

Aspiring Data Scientist with a strong foundation in Machine Learning, IoT, and real-world problem-solving. Passionate about building intelligent, sustainable solutions in agriculture using data-driven insights and automation.

# project

* **KISANSARTHI–Smart Irrigation System**  
  Developed an IoT-based irrigation solution using ESP32, soil moisture sensors, and DHT22 to automate motor control and optimize water usage in agriculture.
* **Fertilizer Recommendation System**  
  Built a machine learning model that recommends fertilizers based on soil parameters, crop type, and weather data to promote sustainable farming.
* **AI-Driven Crop Disease Detection**  
  Created an AI solution that detects early signs of crop disease using image data and environmental factors, enabling farmers to take preventive actions.

# Education

**Shree LR Tiwari College of Engineering**

Bachelors in Information Technology- CGPA - 8.35

# Skills

* **Programming : Python, C/C++, JavaScript**
* **Tools & Libraries: Pandas, NumPy, Scikit-learn, TensorFlow, OpenCV**
* **Hardware: ESP32, Arduino, Soil Sensors, DHT22**
* **Others: Blynk App, Jupyter Notebook, CoCalc**

# Achievements

* **1st Prize Winner – Idea Innovation Competition**
* **Finalist – Smart India Hackathon (SIH)**
* **Finalist – Eureka! Startup Competition, IIT Bombay**