

1. Project Idea: Crop Yield Prediction

Objective: Create an AI prediction model that uses soil & weather data to predict crop yields.

Goal: Help farmers increase the agricultural output and make informed decisions.

2. Relevance to SDGs:

SDG 2 (Zero Hunger): By providing accurate projections for agricultural outputs, the projects aims to increase the food security.

3. Literature Examples:

- A study that predicts agricultural outputs using machine learning & weather data.
- Research focused on analyzing soil data to predict outputs of agriculture.

4. Describing Data:

Sources: Government agencies or research organizations datasets.

Format: CSV files.

5. Approach:

Choice: Deep Learning

Justification: Since, I will be using large datasets and looking at the nature of problem, deep learning is the best option for precise predictions.

Tools: Python, TensorFlow, Keras.