# DEMUX

## AGRO - GENESIS - DEMUX 2024
## Round-1

# Abstract

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**Team Name :** Agro - Genesis

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**Problem Statement:** AT PS5 - Data - Driven Crop Yield Prediction

**Description:** We're working on creating a smart model that can predict how much crop will be produced based on past data and real-time conditions. This tool is designed to help farmers make better decisions

**Purpose/Objective:**

This project aims to build a tool for accurate crop yield predictions, integrating data science with traditional farming to enhance planning, manage risks, and improve agricultural outcomes. The goal is to drive innovation and support sustainable growth in agriculture.

- **Accurate Predictions :** Provide precise crop yield forecasts.
- **Better Planning :** Help farmers plan activities more effectively.
- **Risk Management :** Assist in preparing for potential yield changes.
- **Smart Farming :** Combine new technology with traditional methods.
- **Boost Productivity :** Enhance overall agricultural outcomes.
- **Sustainable Growth :** Promote long-term, sustainable farming practices.

**Abstract:** This project focuses on building a model that predicts crop yields by combining past agricultural data with real-time environmental inputs. By looking at factors like weather, soil conditions, and past yields, the model aims to help farmers improve their practices. The goal is to create a dependable tool that helps farmers make informed decisions, leading to better efficiency and less waste in agriculture.