Project Initialization and Planning Phase

Date	24 April 2024
Team ID	Team-738169
Project Name	Rainfall Prediction Using Machine Learning
Maximum Marks	3 Marks

Define Problem Statements:

To develop a machine learning model to accurately predict rainfall patterns based on historical weather data, aiming to provide reliable forecasts for specific geographic regions. Investigate the feasibility of utilizing machine learning techniques to predict short-term and long-term rainfall trends with a focus on improving accuracy and reducing prediction errors. Address the challenge of rainfall prediction by leveraging advanced machine learning algorithms, considering various environmental factors such as temperature, humidity, and wind patterns. Design and implement a rainfall prediction system using machine learning that can provide timely and accurate forecasts for agricultural planning, disaster management, and water resource allocation.
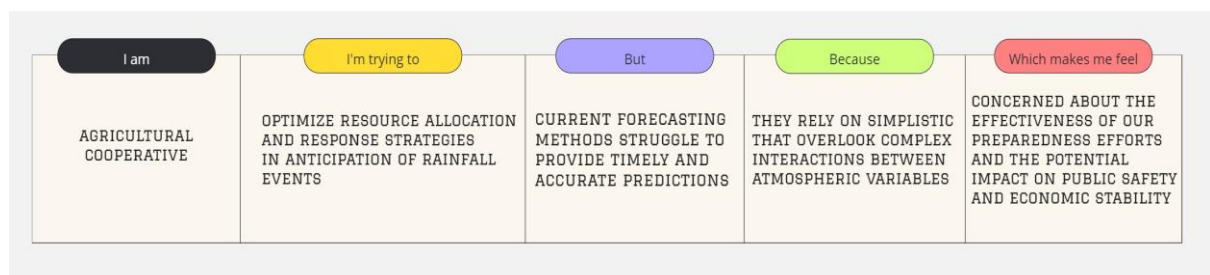
Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	Agricultural Co-operative	Optimize resource allocation and response strategies in anticipation of rainfall events	Current forecasting methods struggle to provide timely and accurate predictions	They rely on simplistic that overlook complex interactions between atmospheric variables	Concerned about the effectiveness of our preparedness efforts and the potential impact on public safety and economic stability