

Team 1: TNAU Web-based module development**Mentor: Dr. K. Amshakala****Problem Statement**

Develop a web application that leverages historical weather data from the past week for a given location collected from trusted sources, process and extract relevant weather features such as temperature, humidity, rainfall, and wind speed, and then pass this data to a cloud-based Artificial Neural Network (ANN) model developed in R-code. The ANN will analyse the data and provide a prediction of the likelihood of disease occurrence based on historical weather trends. The web application will present the prediction through an interactive web dashboard, where users (e.g., farmers and agricultural experts) can input the location, view weather trends, and receive alerts on potential disease outbreaks. The dashboard will also offer recommendations for preventive actions based on disease prediction, enhancing proactive decision-making.