

# INTRODUCTION

Sustainable Development Goal 13 is about climate action and is one of the 17 Sustainable Development Goals established by the United Nations in 2015.

Agriculture is pivotal to the state of Telangana as it accounts for 16% of its industry. Due to rapid change in the climate this is causing there to be a disruption in the weather patterns. The challenge is to address the looming issue and to create sustainable plans.

# PROMPT

Analysing the rainfall and weather pattern in Telangana

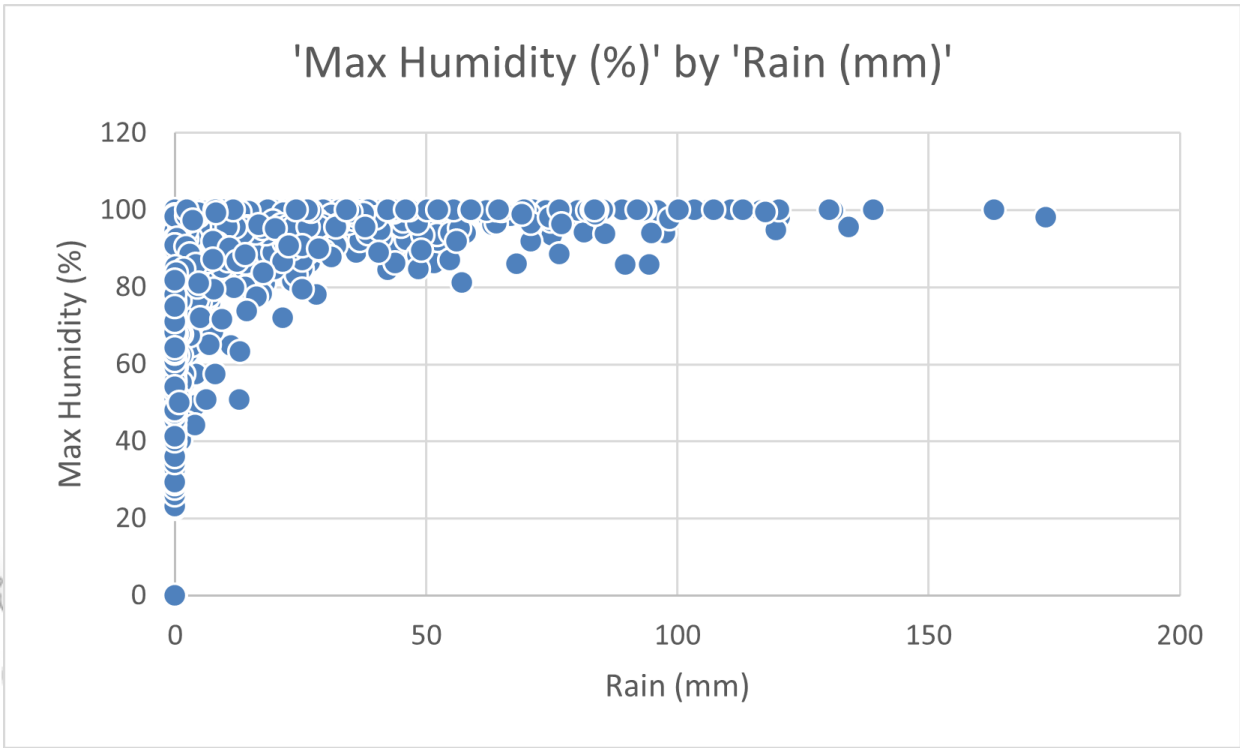
# METHODOLOGY

The Dataset we choose had parameters which can be used to predict the rainfall. So, we first choose to select the districts mentioned in the dataset based on the highest and least amount of rainfall in Telangana. After selecting the districts, we then cleaned the data and chose the parameters mentioned in the dataset which seemed helpful for us to analyse the weather patterns. Parameters we choose are rain, temperature, and humidity. For better understanding of the dataset, we plotted the parameters against Mandal for each District. We used machine learning model to predict the rainfall according to the weather conditions. We made the model to predict if rainfall occurs or not based on the features given which is clearly a classification problem. And the classification model we made gave 86% accuracy.

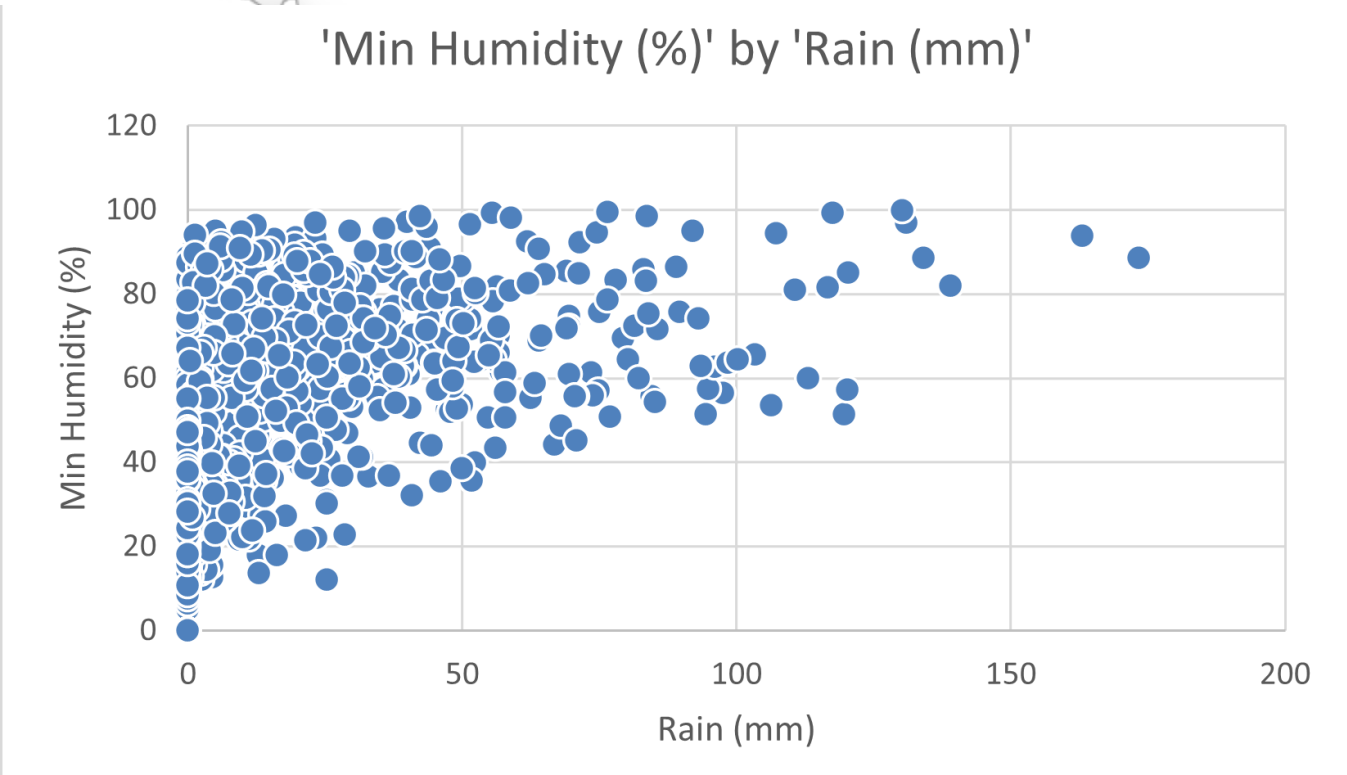
No nature,  
no future

# RESULTS

We have concluded from our analysis that humidity and rainfall are directly proportional.



And we also identified mandals with highest and least rainfall in the districts we chose



# POLICY RECOMMENDATION

- Come up with humidity increasing plans to get rainfall in low rainfall areas