Data Collection and Preprocessing Phase
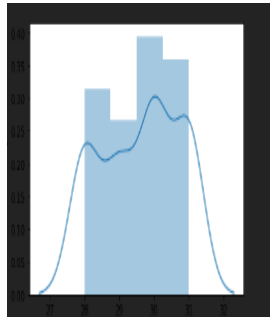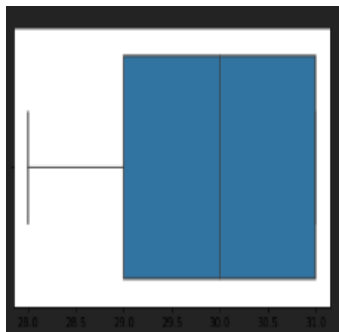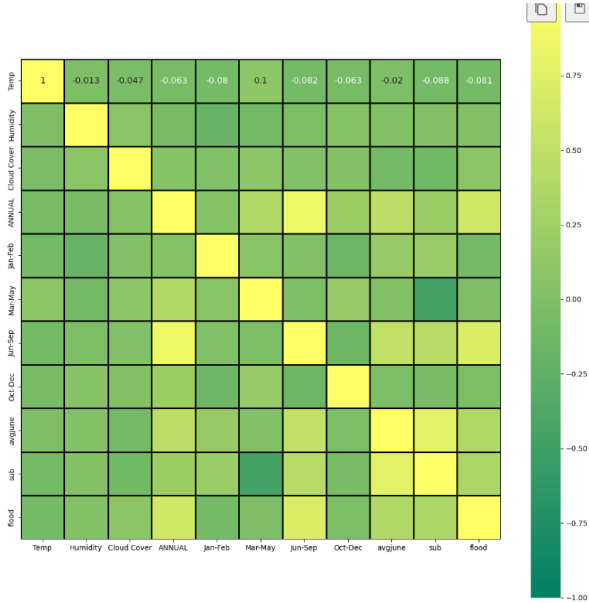
Date	10 July 2024
Team ID	739726
Project Title	Rising Waters: A Machine Learning Approch To Flood Prediction
Maximum Marks	6 Marks

Data Exploration and Preprocessing Template

Identifies data sources, assesses quality issues like missing values and duplicates, and implements resolution plans to ensure accurate and reliable analysis.

Section	Description
Data Overview	Dimensions 115rows x 9columns
Univariate Analysis	

Bivariate Analysis	-
Multivariate Analysis	
Outliers and Anomalies	-

Data Preprocessing Code Screenshots

Loading Data	`data=pd.read_excel("flood dataset.xlsx")`
Handling Missing Values	
| Feature Scaling | ```
#import Standardscaler
from sklearn.preprocessing import StandardScaler
#create object to Standardscaler class
sc=StandardScaler()
x_train=sc.fit_transform(x_train)
x_test=sc.fit_transform(x_test)

#import dump class from joblib
from joblib import dump
dump(sc,"transform.save")
``` |

Feature Engineering	Attached code in final submission.
Save Processed Data	-