



NARASARAOPETA ENGINEERING COLLEGE

(Autonomous)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

2023-2024

Batch Number	CG3
Team Members	K.Venkata Naga Durga Varshitha P.Mani Meghana G.Anuhya
Guide	Dr.S.V.N Sreenivasu
Title	RainFall Prediction
Domain/Technology	MACHINE LEARNING
Dataset Link	https://www.kaggle.com/datasets/jsphyg/weatherdataset-rattle-package
Base Paper Link	https://ieeexplore.ieee.org/document/9844203
Software Requirements	Browser : Any Latest browser like Chrome Operating System. : Windows Language :python Platform :GoogleCOLAB
Hardware Requirements	Processor : Pentium IV or higher Speed :2.4GHz RAM : 8GB(gigabyte) System Type: 64-bit operating system, x64-based processor
Abstract	Rainfall forecasting is a single of difficult and unpredictable undertakings that has a major influence on human society. Predictions that are accurate and timely can help to avert human and financial loss. This study contains a series of experiments that include the utilisation of basic machine learning techniques to build Weather forecasting models that estimate whether it will rain in major cities tomorrow based on the day’s meteorological data. This comparative research looks at three aspects of modelling inputs, modelling methodologies, and preprocessing procedures. The findings demonstrate how different machine learning systems perform on a range of assessment parameters, as well as their capacity to forecast rainfall using weather data analysis. Agriculture is crucial to India’s survival. The importance of rainfall in agriculture cannot be overstated. Rainfall forecasting has been a key problem in recent years. Individuals can be more aware of the weather and make more educated judgments by predicting rainfall.