IDEATION PHASE-LITERATURE SURVEY

Project Name	Exploratory Analysis of Rain Fall Data in India for Agriculture
Team ID	PNT2022TMID40045
Date	16 Oct 2022
Max Marks	2 Marks

LITERATURE SURVEY:

Rainfall prediction is one of the most essential and tricky job in the modern world. In general, weather and rainfall are highly non-linear and complex phenomena, which require advanced computer modelling and recreation for their accurate prediction. An Artificial Neural Network (ANN) can be used to foretell the behavior of such nonlinear systems.

Soft computing deals with approximate models where an approximation answer or result is achieved. Soft computing has three basic components, namely, Artificial Neural Network (ANN), Fuzzy logic and Genetic Algorithm. ANN is commonly used by researchers in the field of rainfall prediction. Human brain is a highly complex, nonlinear, and parallel computer. Neural Networks are simplified models of biological neuron system. A neural network is a massively parallel distributed processor made up of simple processing units, which has a natural propensity for storing experiential knowledge and making it available for use .

The fundamental processing element of an ANN is an artificial neuron. Just like the natural neuron in human brain, it can receive inputs, process them and produce the relevant output. Neural Networks are successful of modelling a weather forecast system.

Statistical indications chosen are capable of extracting the trends, which can be regarded as elements for creating the models. The neural community signal processing strategy for weather forecasting is successful of yielding excellent outcomes and can be considered as an choice to usual meteorological approaches. Accurate climate forecasting performs a integral role for planning day to day activities. Neural community has been use in numerous meteorological purposes together with climate forecasting