

# Binary Classification of Rainfall Level by K-means and Fuzzy C-means Clustering

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## Abstract:

In India the climatic parameters vary too rapidly. In such situation the rain prediction is very challenging. The classification and regression problem pertaining to rainfall can be effectively solved using some efficient machine learning technique. This thought has been a motivation in developing this research article. The secondary data with two attributes viz. humidity and maximum temperature has been used to train binary classification models to cluster it into 2 classes viz. 'Heavy rainfall' & 'Light rainfall'. To develop classification models, two different algorithms viz. K-means, and FCM (Fuzzy C-means) clustering are used in MATLAB, and their performance is compared.

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