

## ABSTRACT

River flooding is a natural phenomenon that can have a devastating effect on human life and economic losses. Accurate and timely rainfall prediction can be very helpful to take effective security measures in advance regarding: on-going construction projects, transportation activities, agricultural tasks, flight operations during flood situation. Data mining techniques can effectively predict the river flooding by extracting the hidden patterns among available features of past weather data. This research contributes by providing a critical analysis and review of latest data mining techniques, used for flood prediction. In our proposed system, we propose a new forecasting method that uses a machine learning and deep learning approach to predict monthly rainfall for a selected location. We have implemented machine learning algorithms like Support Vector Machine, Random Forest, Gaussian Naive Bayes and a deep learning algorithm - ANN (Artificial Neural Network). In our proposed system, we are going to predict the flood result based on the accuracy which we get in train and test the dataset-based machine learning and deep learning algorithms using that we show the graph result.