

DATA MINING

Analysis of Data Mining Techniques for Weather Prediction

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Abstract

Background/Objectives: To forecast weather, which is one of the greatest challenges in meteorological department. Weather prediction is necessary so as to inform people and prepare them in advance about the current and upcoming weather condition. This helps in reduction in loss of human life and loss of resources and minimizing the mitigation steps that are expected to be taken after a natural disaster occurs. Methods/Statistical analysis: This study makes a mention of various techniques and algorithms that are likely to be chosen for weather prediction and highlights the performance analysis of these algorithms. Various other ensemble techniques are also discussed that are used to boost the performance of the application. Findings: After a comparison between the data mining algorithms and corresponding ensemble technique used to boost the performance, a classifier is obtained that will be further used to predict weather. Applications: Used to Predict and forecast the weather condition of specific region based on the available pre historical data which helps to save resources and prepare for the changes forth coming.

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