DATA WAREHOUSING AND DATA MINING LAB - PROJECT SYNOPSIS

NATURAL DISASTER DATA ANALYZER

Objective

The main objective of the project is to develop a software to analyze the data of natural disaster using the data mining techniques.

Scope

Indonesia is one of the countries with diverse morphology of the lands, high mountains, and the tropical climates of frequent high rainfall. This condition often causes natural disasters in some areas of the country, which sometimes are so terrible that make a lot of people are missing and suffering. To reduce the impact of natural disaster by processing the data gathered using clustering data mining techniques.

Abstract

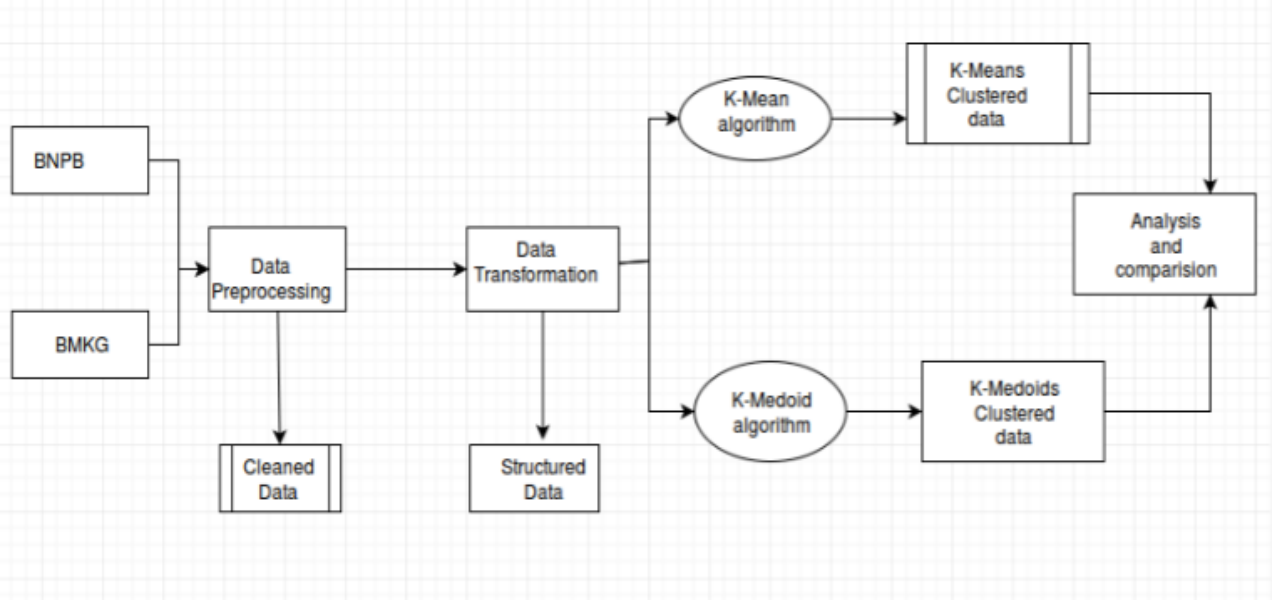
In order to reduce the impact of natural disasters to the people and environment, the data set has to be gather having the data of at least last five years. Data is obtained from the official sites of Indonesian National Board for Disaster Management (BNPB) and Indonesian Agency for Meteorological, Climatological, and Geophysics (BMKG). The data with similar features are grouped using clustering technique. The appropriate method that is more accurate in grouping data is found by implementing and comparing K-Means algorithm and K-Medoids algorithm. The two methods are frequently used to make some analysis of data to find some hidden information. The result shows that weather is not the only factor causing natural disaster. By using the result, the government can make some plans for natural disaster mitigations.

Programming Language and Timelines

Language: R

Timelines: 4 Weeks

Methodology



References

[1] Prihandoko Et al "An Analysis of Natural Disaster data by using K-Means and K-Medoids Algorithm of Data Mining Techniques".2015

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