Analysis of Climate change and Weather Prediction

**Abstract:**

Big data is the voluminous and complex collection of data that comes from different sources such as sensors, content posted on social media website, sale purchase transaction etc. Such voluminous data becomes tough to process using ancient processing application. There are various tools and techniques in the market for big data analytics. With the increase in the data dealing with climate, it is hard to analyze with the ancient methods. The best place to look up to find room for improvement is the voluminous raw data that is generated on a regular basis from various sources by applying Big Data Analytics (BDA) which helps to analyze certain trends that must be discovered, so that there is much. In this project we are analyzing climate data and trying to predict weather in different areas in a city by using Hadoop tool along with some Hadoop ecosystems like HDFS, map reduce, sqoop, hive and pig. By using these tools, we can process no limitation of data, no data lost problem, we can get high throughput, maintenance cost also very less and it is an open source software, it is compatible on all the platforms since it is Java based.

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