**Term Paper Abstract**

**Topic Name :** Big Data in Weather Forecasting

**Name :** Patel Jaykumar Dineshkumar

**Cwid :** 20008512

The interpretation of a massive amount of data plays a vital role, likewise with the climate and weather. The information needs to be gathered, evaluated, and filed. lots of human activities like Agriculture, pollution, production, and power generation are weather-dependent activities. The need to know more about the weather, from what will happen tomorrow to what will be here next year, is being driven by mounting evidence of global climate change. Because we need to examine a vast amount of data to forecast the weather, using big data in weather forecasting has several benefits, including the potential to save lives, enhance profitability, and improve quality of life. These sectors include precision agriculture for future farming, large-scale crop production projections for global food security, forecasting solar power for utility operations, and space weather. This article defines several weather forecasting applications and technical hurdles in order to understand how these applications might affect standard operations.