Weather Forecasting Using AI

Abstract:Weather forecasting is a critical application of Artificial Intelligence (AI) that utilizes historical weather data and advanced Machine Learning (ML) models to predict atmospheric conditions accurately. This project implements AI techniques such as regression analysis and time-series forecasting to analyze weather patterns, including temperature, precipitation, and wind speed. By leveraging real-time data, the system provides precise forecasts, aiding in disaster preparedness, agriculture planning, and transportation management. The use of AI ensures enhanced accuracy and adaptability, making this solution a vital tool for mitigating the impact of extreme weather events.

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