Flight delay Prediction using Machine learning Algorithm XGBoost

Problem Description:

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- Since two decades, rapid growth in air traffic is observed due to comfort, flexibility, and speed
- Every year, huge amount around $22 billion loss is noticed due to delay of flights in U.S as per the reports of FAA (Federal Aviation Administration)
- .According to Federal authorities if delay is more than 3 hours for domestic flights and more than 4 hours for International flights the airlines companies have to pay penalty.
- Some examples include mechanical problems, weather
- conditions, ground delays, air traffic control, runway queues and capacity constraints [103, 63, 3].