

Developing a Flight Delay Prediction Model using Machine Learning

Problem Statement

Passenger flights getting delayed

Defining the Problem

Question	Description
Who does the problem affect?	Passengers who are in emergency situation to reach destination
What is the issue?	An airline flight takes off and lands later than its scheduled time. A cancellation occurs when the airline does not operate the flight at all for a certain reason. However, depending on why the flight was cancelled, finding seats on a new flight will also be difficult and may change travel plans.
When does the issue occur?	The issue occurs when there are adverse weather conditions, if the flight is waiting for cargo or crew or if the airport staff strike.
Where is the issue occurring?	Airport
Why is it important that we fix the problem?	Flight delays cause inconvenience for both airline companies and passengers. They cause a decrease in efficiency, an increase in capital costs, reallocation of flight crew and aircraft, and additional crew expenses and require the consumption of extra labour, capital, and other inputs necessary in the process. Other impact of flight delay can be a risk which represents dissatisfaction of passengers and their loss in time.

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