Developing A Flight Delay Prediction Model Using Machine Learning

PROBLEM STATEMENT:

The aim of the problem statement is to predict flight delays accurately in order to optimize flight operations and minimize delay, using a machine learning mode. Over the last twenty years, air travel has been increasingly preferred among travelers, mainly because of its speed and in some cases comfort. An increase in air traffic growth has also resulted in massive levels of aircraft delays on the ground and in the air. The main objective of the model is to predict flight delays accurately in order to optimize flight operations and minimize delays. The input to our algorithm is rows of feature vector like departure date, departure delay, distance between the two airports, scheduled arrival time etc. then use decision tree classifier to predict if the flight arrival will be delayed or not. A flight is considered to be delayed when difference between scheduled and actual arrival times is greater than 15 minutes.