

## **Literature survey:**

To predict flight delays using machine learning, you will need to collect and process a large amount of data on past flight delays. This data should include information such as the flight's departure and arrival times, the airline, the aircraft type, and the weather conditions at the departure and arrival airports. Once you have collected and cleaned the data, you can use a variety of machine learning techniques such as regression, decision trees, or neural networks to train a model that can predict flight delays based on this data. It is important to note that flight delay prediction is a highly complex task and requires a lot of data.

The literature suggests that ML models, specifically decision tree, ANN and random forest models, have been used to predict flight delays with varying degrees of accuracy. Commonly used features include historical flight data, weather conditions, and airport operations. It also shows that a combination of data mining techniques can be used to identify the factors that contribute to flight delays.