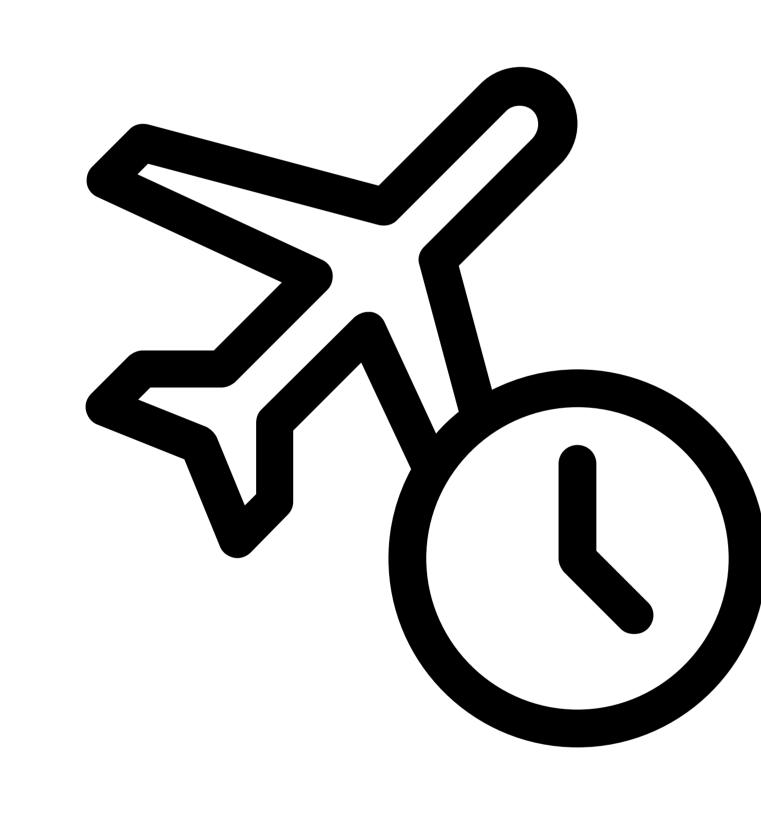


Define a problem statement

Flight Delay Prediction for Aviation Industry

PROBLEM

Nowadays, the aviation industry plays a crucial role in the world's transportation sector, and a lot of businesses rely on various airlines to connect them with other parts of the world. But, extreme weather conditions may directly affect the airline services by means of flight delays.



- To solve this issue, accurately predicting these flight delays allows passengers to be well prepared for the deterrent caused to their journey and enables airlines to respond to the potential causes of the flight delays in advance to diminish the negative impact.
- The purpose of this project is to look at the approaches used to build models for predicting flight delays that occur due to bad weather conditions.



Brainstorm

Ideas for Flight Delay Prediction

Develop machine

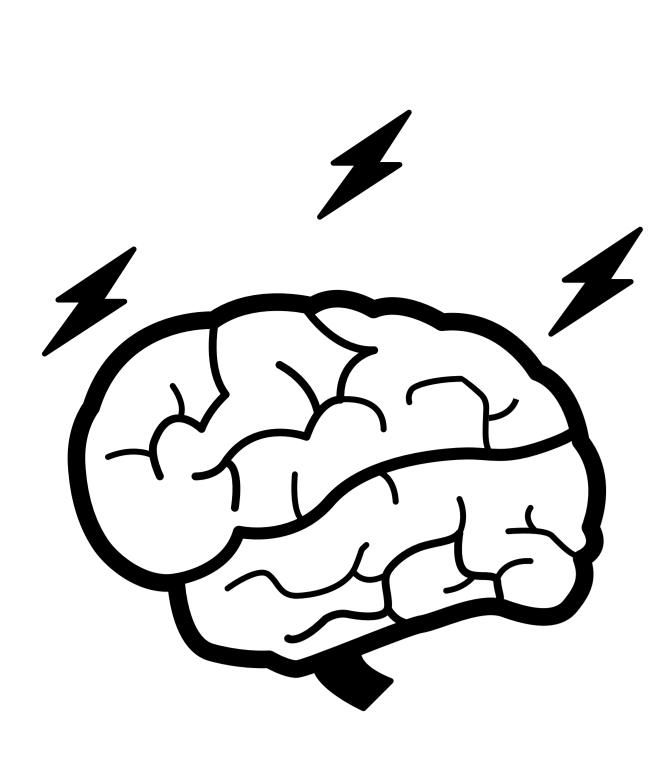
learning models

such as logistic

regression,

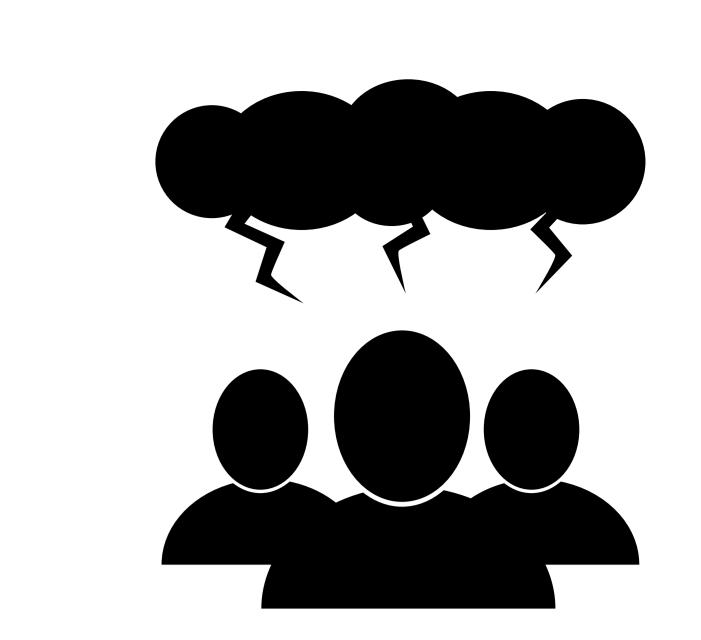
decision trees, and

neural networks

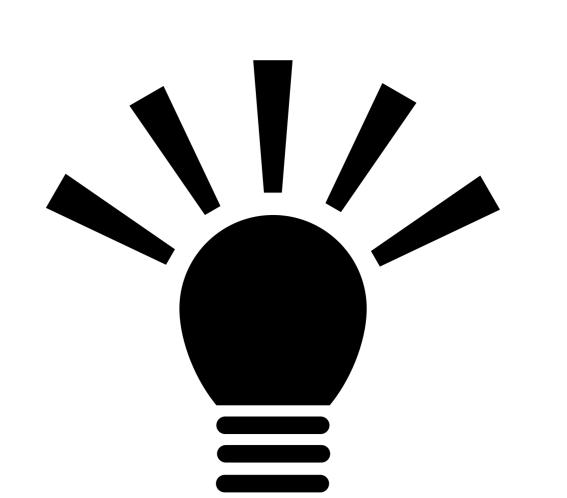


Group ideas

flight data



Prioritize



Analyze historical flight data

Person 1

Analyze passenger booking data to predict the likelihood of a flight delay

Use real-time data from weather services & air traffic control

Person 2

Use deep learning models such as convolutional neural networks (CNNs) and recurrent neural networks (RNNs)

If You're Already at the Airport Speak to Gate Agent

Person 3

Use collaborative filtering techniques to analyze data from multiple airlines and airports

> Develop explainable Al models to help airlines understand the factors that

Person 4

Monitor social media platforms to identify customer complaints

> Analyze airline operations data such as aircraft maintenance &

Analyze historical

Develop machine learning models such as logistic regression, decision trees, and

If You're Already at the Airport Speak to Gate Agent

neural networks

Analyze passenger booking data to predict the likelihood of a flight delay

Monitor social media platforms to identify customer complaints

Use collaborative filtering techniques to analyze data from multiple airlines and airports

Analyze airline operations data such as aircraft maintenance & schedules

Use real-time data from weather services & air traffic control

Develop explainable Al models to help airlines understand the factors that contribute to flight delays

Use deep learning models such as convolutional neural networks (CNNs) and recurrent neural networks (RNNs)

