Flight Delay Predictor

**Business problem**

Travelers have tight schedules and need the ability to precisely plan activities in advance. Flight planning is particularly challenging due to frequent flight delays and changes due to weather, air traffic, maintenance, and other contributors to delays. Poor flight planning can incur additional costs in time and resources, such as flying into a destination the day before, difficulties in coordinating departure and arrival transportation, taking non-optimal flight paths.

Knowing the probabilities of flight changes and delays in advance would mitigate these issues and enable travelers to make more informed decisions.

**Requirement**

As a traveler, I want to see the predicted departure and arrival times for a flight that I specify

So that I can plan my schedule around accurate flight times.

I also want to understand the likely sources of those delays—weather, airline management, etc.

**MVP Scope**

* Prediction for flight departure and arrival times – user inputs flight number and travel time and receives predicted departure and arrival times
* Domestic passenger flights only
* Major airlines only (top 5 airlines by passenger volume)