Checkpoint 1: data gathering and defining stakeholders + KPIs

Assignment:

* Find the dataset you will be working with.
* Describe the dataset and the problem you are looking to solve (1 page max).
* List the stakeholders of the project and company key performance indicators (KPIs) (bullet points).

Dataset 1: Aviation Safety Reporting System (ASRS) database

* Self-reported database of aviation safety incidents. Includes near-collisions, airspace violations, crew fatigue, weather encounters, passenger misconduct, communication issues, etc.
* Reports include information on time, location, weather conditions, miss distance, human factors, result, reporter’s narrative of the event, etc.
* Full database has > 230,000 reports from 1988-2025
* To incentivize reporting, reports is anonymized and not used in FAA enforcement
* Excludes reports that indicate criminal activity or accidents (i.e. crashes)
* Maintained by NASA

Problem (possibilities)

* How have incident patterns (frequency, severity) evolved over time?
* Can we predict what issues might occur in a particular flight?
* Can we trace any incident patterns to particular reforms or changes in aviation (e.g. volume)?
  + Would require additional data / historical information

Stakeholders + KPIs

* Frequencies of incidents