	Setup	Actions	Outcomes	Results
Current Implementation	• Collect initial data on flight delays from various airlines. • Identify key metrics: carrier, distance, origin, time of day.	• Analyze collected data to determine initial trends. • Assess carrier delays, route distances, and points of origin.	• Gain preliminary understanding of delay patterns. • Identify which carriers have higher delays.	• Basic insights into flight delays.
Future Implementation	• Collect comprehensive historical data on delays, including weather impact.	• Develop predictive models to calculate expected delays. • Continuously monitor and update the model.	• Detailed understanding of delay causes. • Identification of key operational factors driving delays.	• Reduction in flight delays through targeted operational improvements.

CRISP-DM

Business Understanding

Identidy key factors
driving flight delays

Data Understanding

Delay times
Carries
Weather conditions
Points of orgin

Data

Deployment

Apply the model to
predict and mitigate
flight delays in real-
time operations.

Data Preparation

Pull data from
diferent sources.
Join data sets from
different sources to
get weather per city
at flight time

Evaluation

Determine modeling
potential, if not back
to refurmulate.

Modeling

Model Training and
tuning