

Objectives

 Create a ML model to predict delays for domestic flights given departure date/time and airport and/or flight number.

 Setup an interactive user interface where user can specify flight details and determine the estimated delay.



Current workflow & limitations

Traveler







Simple Flight Stats



ML based prediction



Consumers have access

Private websites, National Airspace
System Status







Simple Flight Stats



ML based prediction

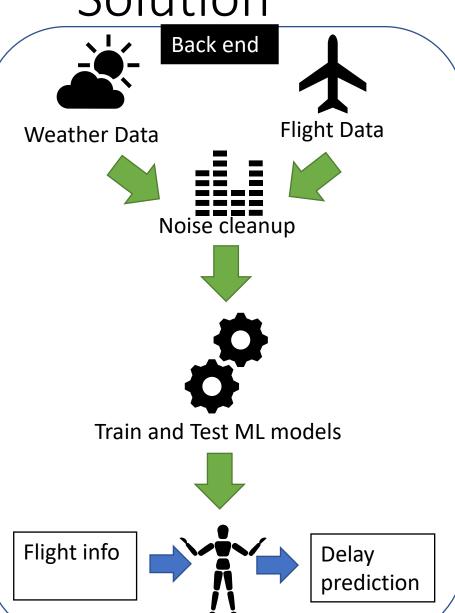


Consumers have access

Various ML models built on historical flight data



Solution

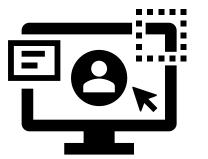


Final ML model



Front end





User friendly Interface



Traveler





Stakeholders and Impact



Stakeholders



Airlines

Travelers



Travelers avoid delays; time savings



Avoid hotel and rental

car cancellations; cost

savings

Impact

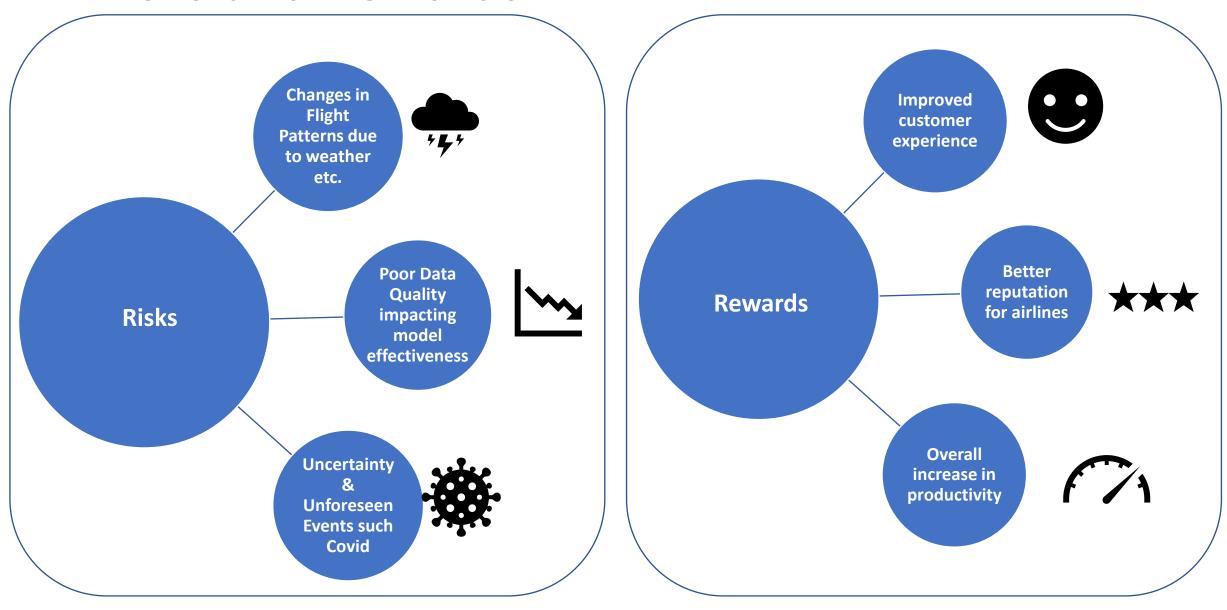


More productivity for business travelers

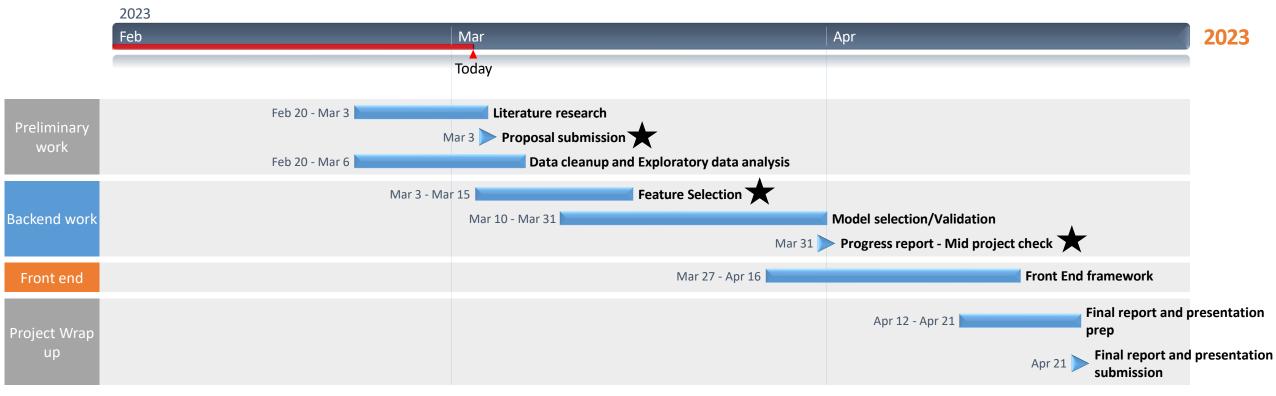


Increased passenger satisfaction with airlines

Risks and Rewards



Project Plan and Costs





Project progress checkpoints

Costs

- No usage of any cloud services
- No additional compute resources need
- No additional cost