Analysis of International Airline Ticket Prices



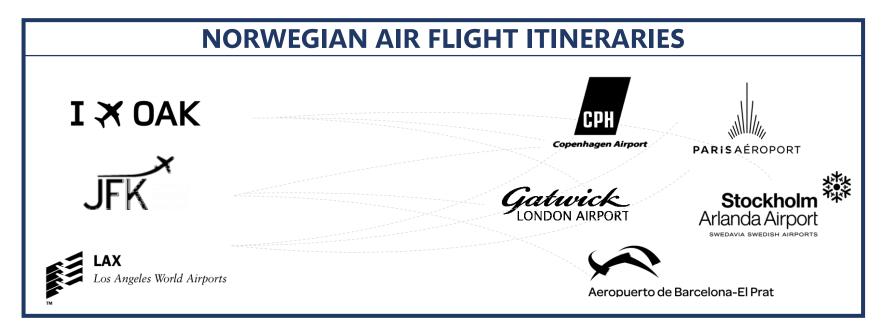
PREDICTING INT'L AIRFARE – SUMMARY

FLIGHT DATA

days starting June 2, 2019

4,400+ flights

Predicting Airfare Linear Reg. Model **Producing:**



OVERVIEW – DATA COLLECTION



WARNING:

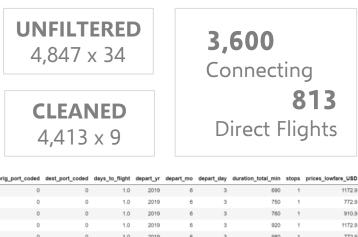
Site structure sometimes changes....

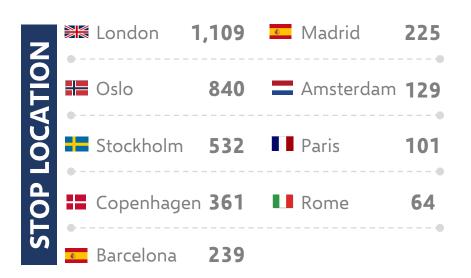
[Notice only 3 price columns here]

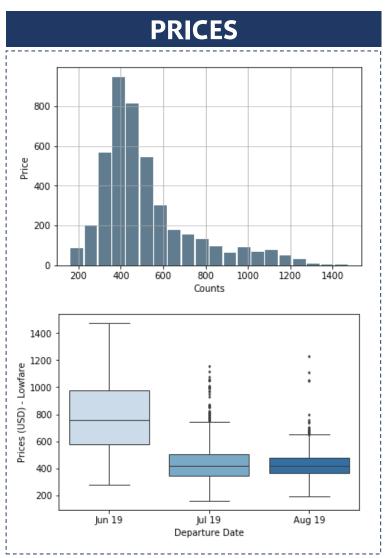


DATA EXPLORATORY ANALYSIS

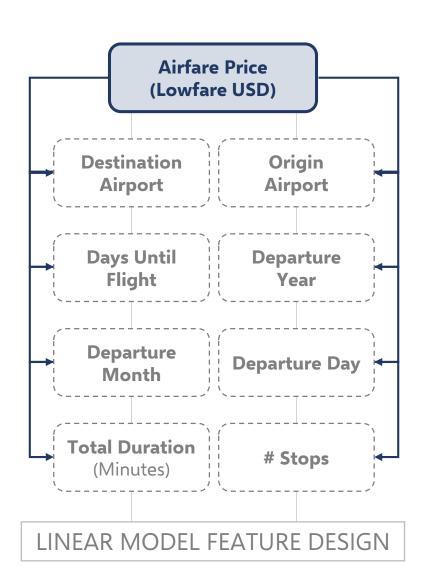
DATA SUMMARY







PREDICTIVE LINEAR MODEL & FLASK API





REQUEST USING curl



curl -H "Content-Type: application/json" -X POST -d '{"orig_port_coded":"0","dest_port_coded":"0","days_to_flight":"10","depart_yr":"2019","depart_mo":"6","depart_da y":"13","duration total min":"750","stops":"1"}' "http://ec2-54-202-68-148.us-west-2.compute.amazonaws.com:5000/predict_airfare"

LAUNCHING FLASK API

EXAMPLE: REQUEST PREDICTION

```
@ip-172-31-27-175 ~]$ curl -H "Content-Type: application/json" -X POST -d '{"orig_s
_coded":"0","days_to_flight":"10","depart_yr":"2010","depart_mo":"6","depart_day":"1
       750", "stops": "1"}' "http://ec2-54-202-68-148.us-west-2.compute.amazonaws.com:5000/p
airfare prediction": 432.46229448441675
```

CHALLENGES & FUTURE IMPROVEMENTS

SITE STRUCTURE CHANGES



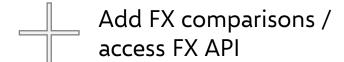
FXTRFMFLY SLOW SCRAPER



SEMI-CLUNKY CODE



IMPROVEMENTS



Run scraper daily at consistent times capture changes in ticket prices



DISCLAIMER

All mentions of Norwegian (Norwegian Air Shuttle) and uses of logos, colors and font schemes are registered trademarks of Norwegian Air Shuttle and subject to all trademark and copyright laws.

All data presented in this analysis is collected in adhereance to Norwegian Air Shuttle data policies and used for personal academic and educational purposes only.