Analysis of International Airline Ticket Prices



PREDICTING INT'L AIRFARE – SUMMARY

FLIGHT DATA

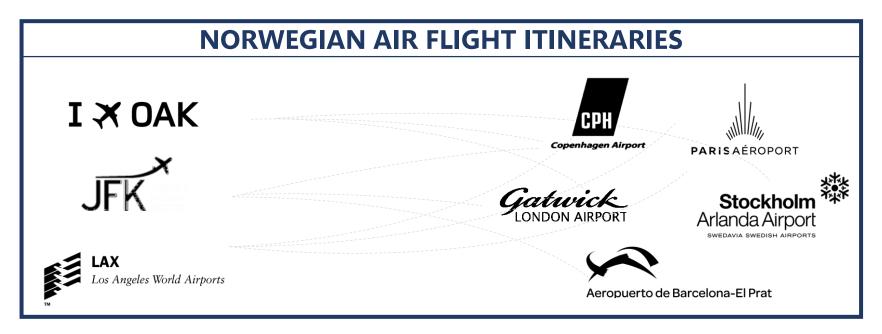
90 days starting

4,400+ flights Property Pro

Predicting Airfare
via
Linear Reg. Model

Producing:





OVERVIEW – DATA COLLECTION



WARNING:

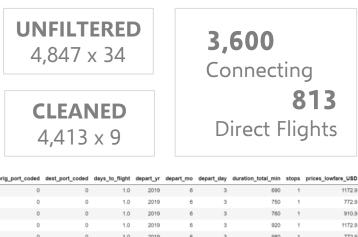
Site structure sometimes changes....

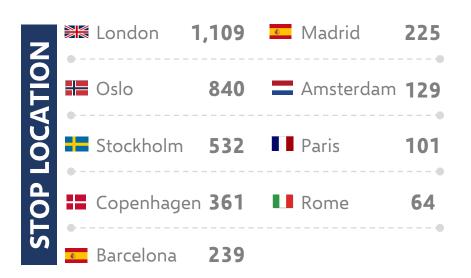
[Notice only 3 price columns here]

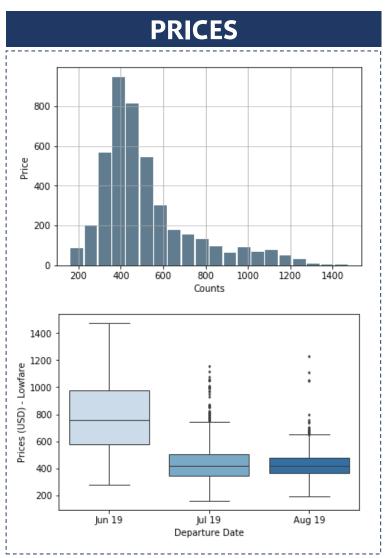


DATA EXPLORATORY ANALYSIS

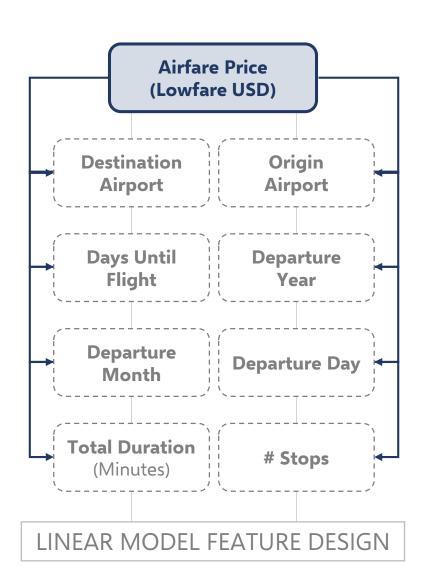
DATA SUMMARY







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



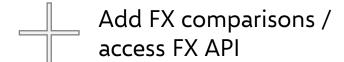
FXTRFMFLY SLOW SCRAPER



SEMI-CLUNKY CODE



IMPROVEMENTS



Run scraper daily at consistent times capture changes in ticket prices



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