

Regional delta of Ticket - Departure date trend

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Delta of ticket issue and departure date is mostly based on ticket price.

But there are other factors like regional and seasonal preferences.

My solution allows the user to select a origin and destination (GPS location) and the system predicts delta of average customer's ticket booking date ahead of their departure date.

Use Cases

B2B

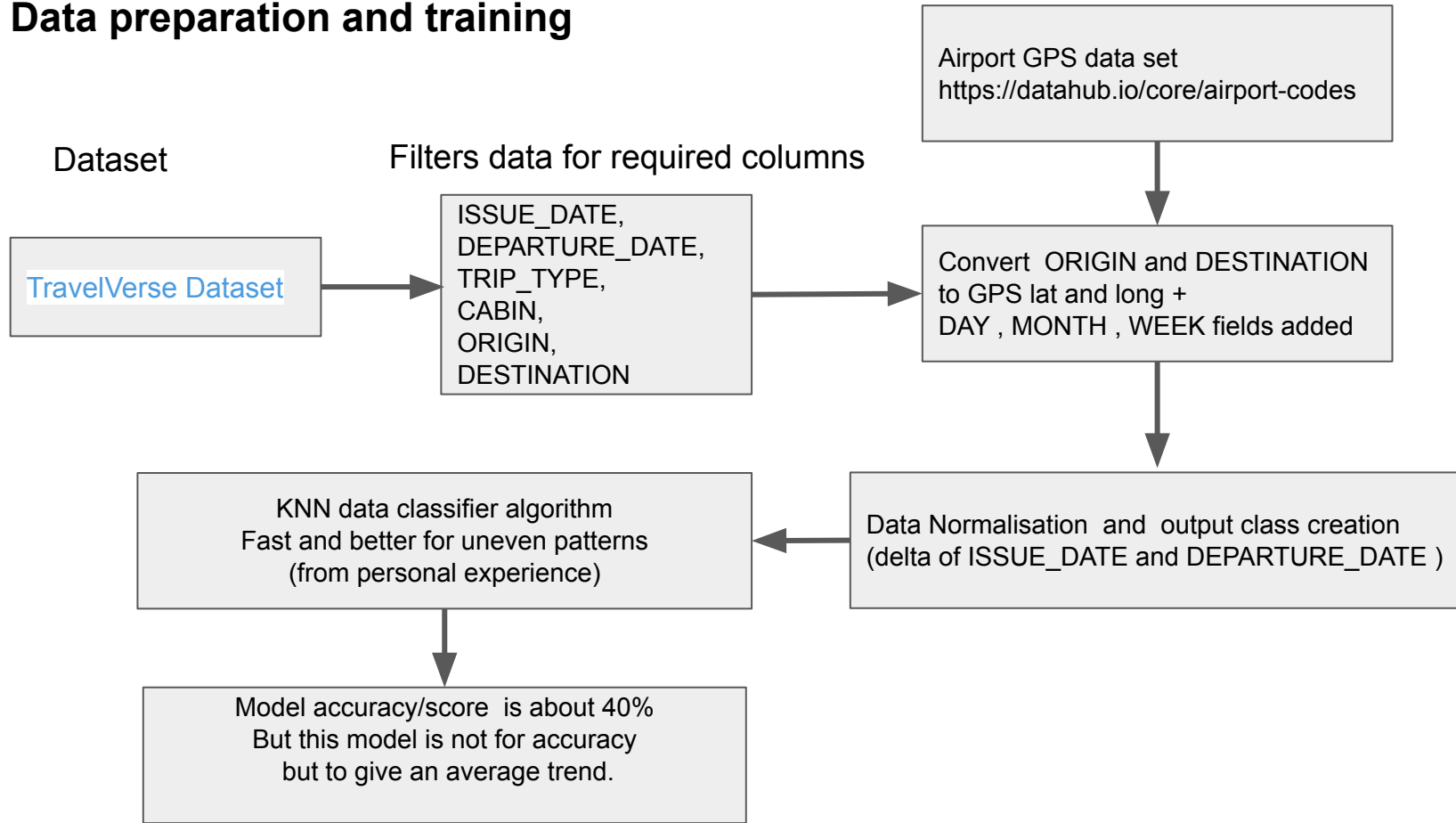
- The solution can be tuned for each flight company to plan their flights in advance.
- can be plugged into other ML models for predicting type of trip (holiday trip or work trip , etc..)

B2BC

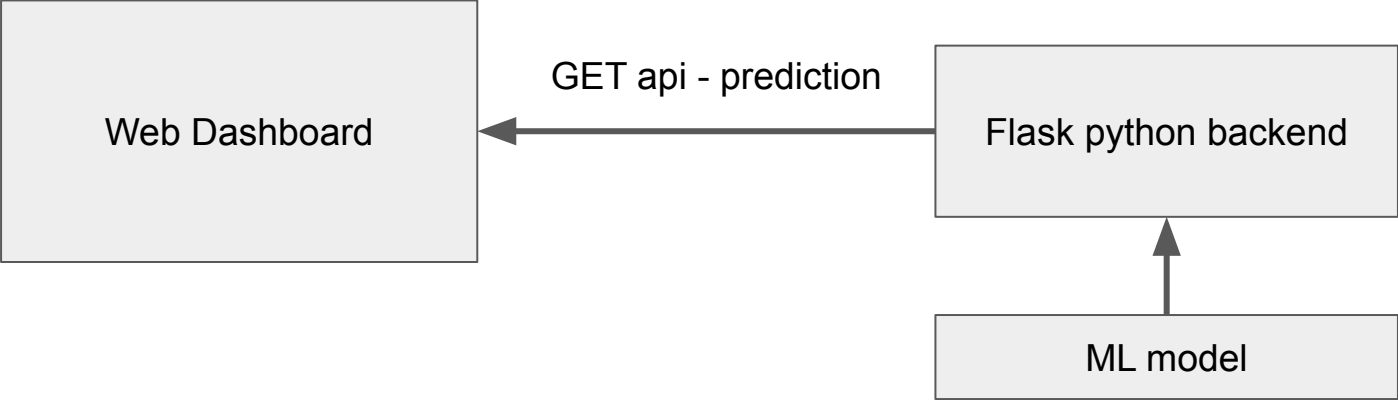
- The prediction can be used by the marketing / tour companies to plan their fares and offers

There are more use-case possibilities and insights we can get from these predictions like, how regional mindset is related to booking time . seasonal booking, etc..

Data preparation and training



Usage Architecture



Datasets used

Airport code dataset - gives GPS information and location information
<https://datahub.io/core/airport-codes>

[TravelVerse Sample Dataset](#) -

My laptop was not keeping up with the full-dataset so used sample dataset

Tools used

Data preparation

- Pandas
- Python
- Pickle

Backend API

- Sklearn
- Python
- Flask

ML Training

- Sklearn
- Python

Frontend Dashboard

- Web based (HTML , CSS, JS)
- HERE maps
- Chart.js