Plane Ticket Price Analysis

Andrew Choi



Who am I?

Name: Andrew Choi Born: Queens, NY

From: NJ

Previously: 9 Year Marine Corps

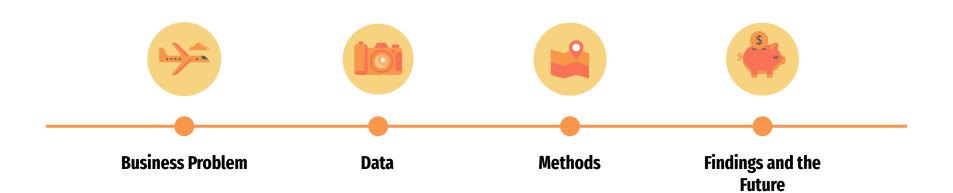
Veteran

https://www.linkedin.com/in/cjunhyuk/

https://github.com/cjunhyuk



Agenda



When Should I Buy My Ticket?



Beginning of the Month?

End of the Month?



The Best Departure Date and Time?

Sun	Mon	Tues	Wed	Thur	Fri	S7.t
1	2	3	4	5	6	7
8	9	10	11	12	13/	14
15	16	17	18	19	20	21
22	23	24	25	26/	27	28
29	30	31				

10% More Expensive!

Tickets departing on Fri, Sat, and Sun

Depart on Tuesday

22% of the cheapest and shortest flights

Morning or Night

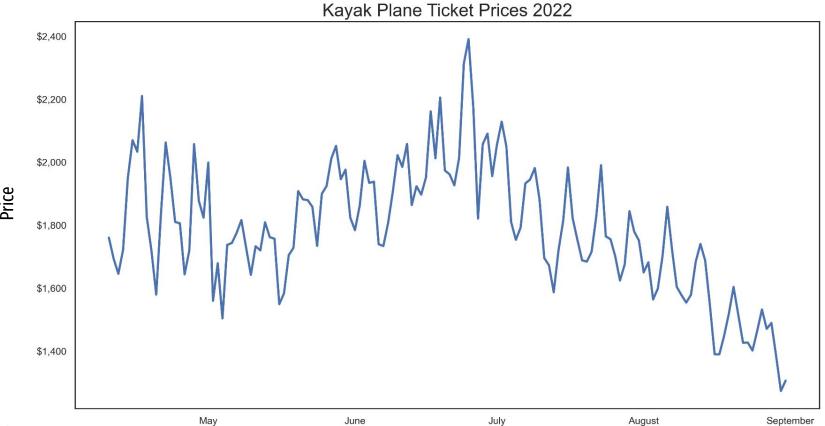
5:00 AM to 8:00 AM 5:00 PM to 8:00 PM 37% of Cheapest Flights



Data

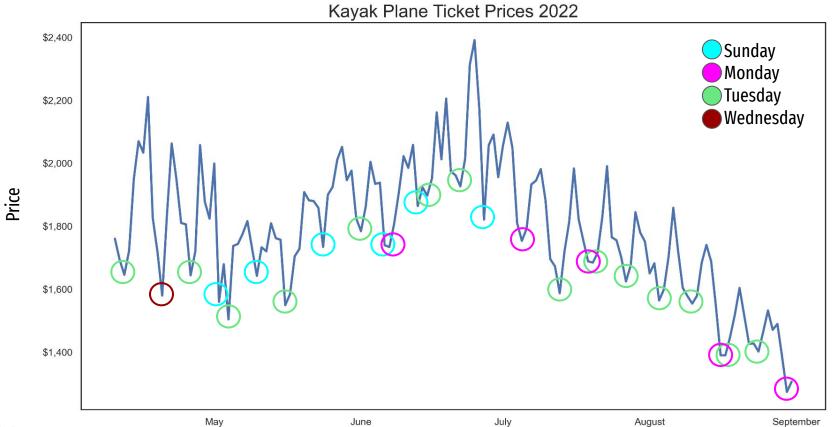






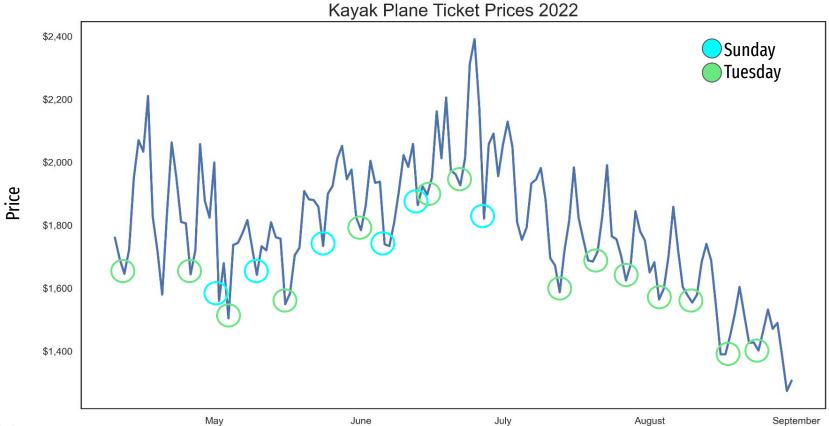
Month





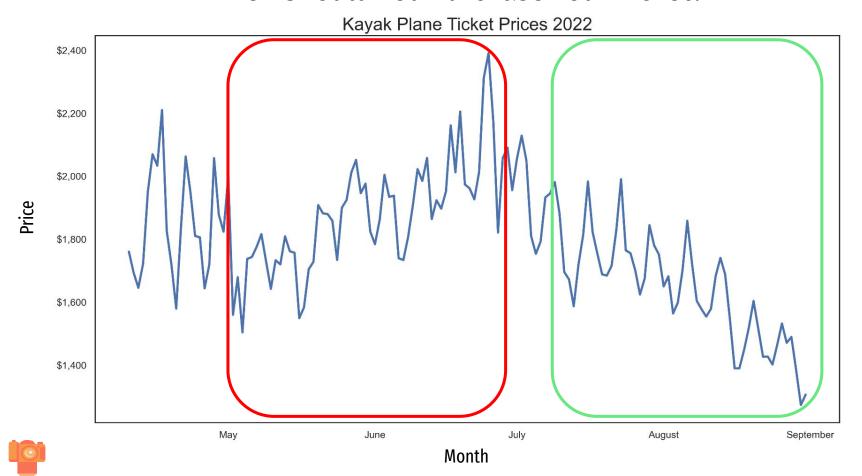
Month





Month





Methods







1

2

3

Web-Scraping

Scrape Flight Data From Kayak

Data Cleaning

Feature Engineering Assigning Targets

Modeling

99.43%

Precision

Decision Tree Classifier

Time Series



Findings



Fly On Tues

Save an Average of \$175.00



Early Bird

41% of Cheapest Flights From 5:00 AM to 8:00 AM



Total Duration

Saved an Average of 5 Hours Per Flight



4 - 5 Month

4 - 5 Months in Advance for the Lowest Prices



Going Forward



INCREASE DATASET RANGE AND SIZE

Gather Data for a Period of 1 Year with additional Airports and Destinations



DEVELOP APP

Create an application that will give you the best ticket in terms of duration and price



MORE WEBSITES

Gather data from more websites to analyze for potential differences







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