



Plane Ticket Price Analysis

— Andrew Choi



Who am I?

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From: NJ

Previously: 9 Year Marine Corps
Veteran

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Agenda



Business Problem



Data



Methods



**Findings and the
Future**

When Should I Buy My Ticket?

Weekday?

Weekend?

SEPTEMBER						
SUN	MON	TUE	WEN	THU	FRI	SAT
		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		

**Beginning of the
Month?**

End of the Month?



The Best Departure Date and Time?

Sun	Mon	Tues	Wed	Thur	Fri	Sat
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

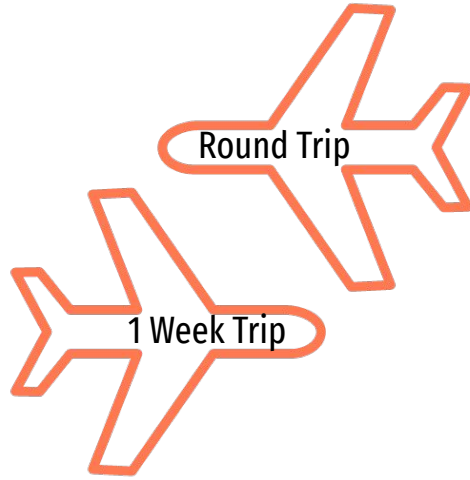
22% of the cheapest and
shortest flights

Morning or Night

5:00 AM to 8:00 AM

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

Data



KAYAK®



April 10, 2022 → September 1, 2022

New York City
San Diego, California
New Jersey

SOUTH KOREA



THAILAND

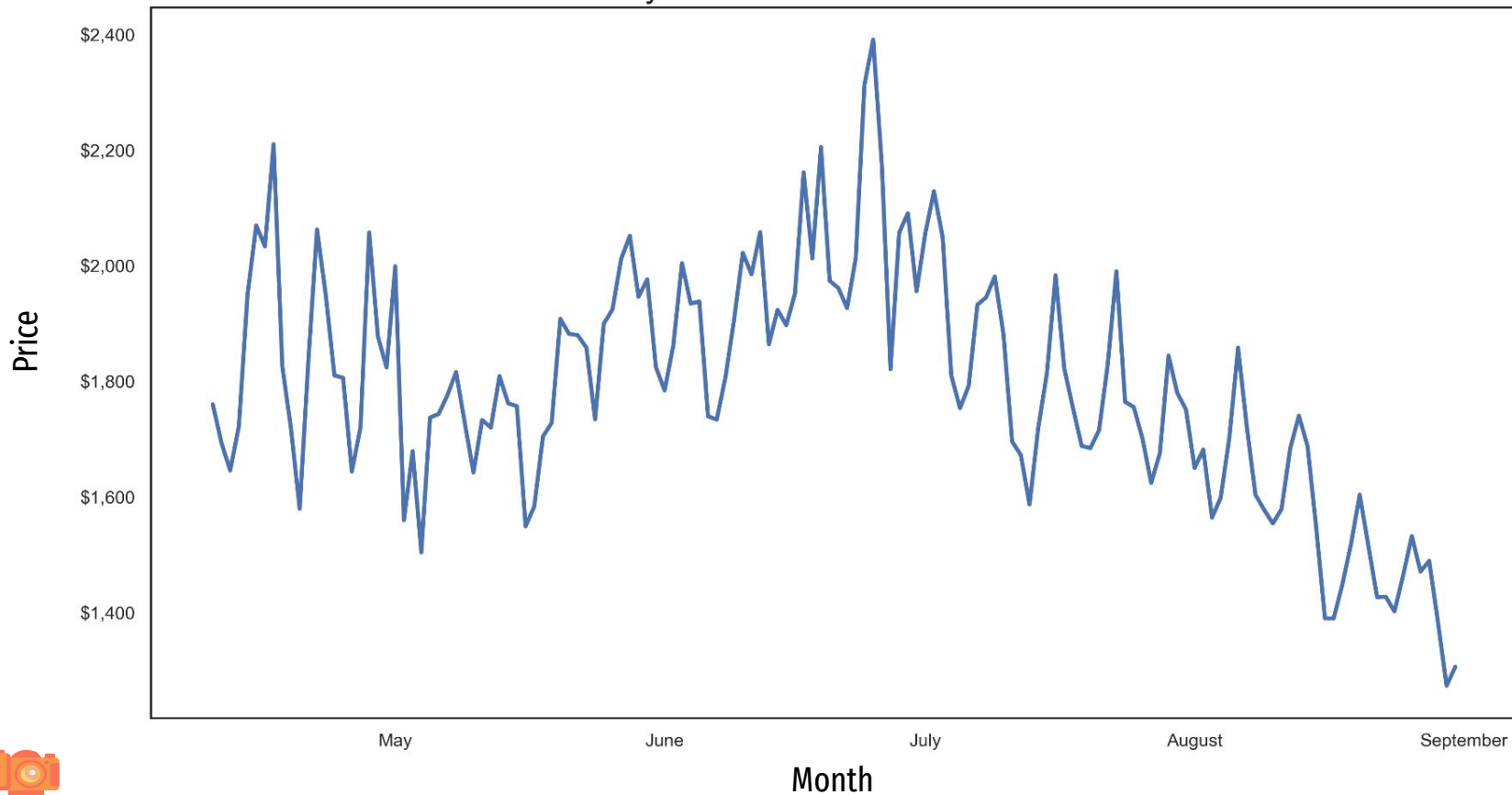


SINGAPORE



When Should You Purchase Your Ticket?

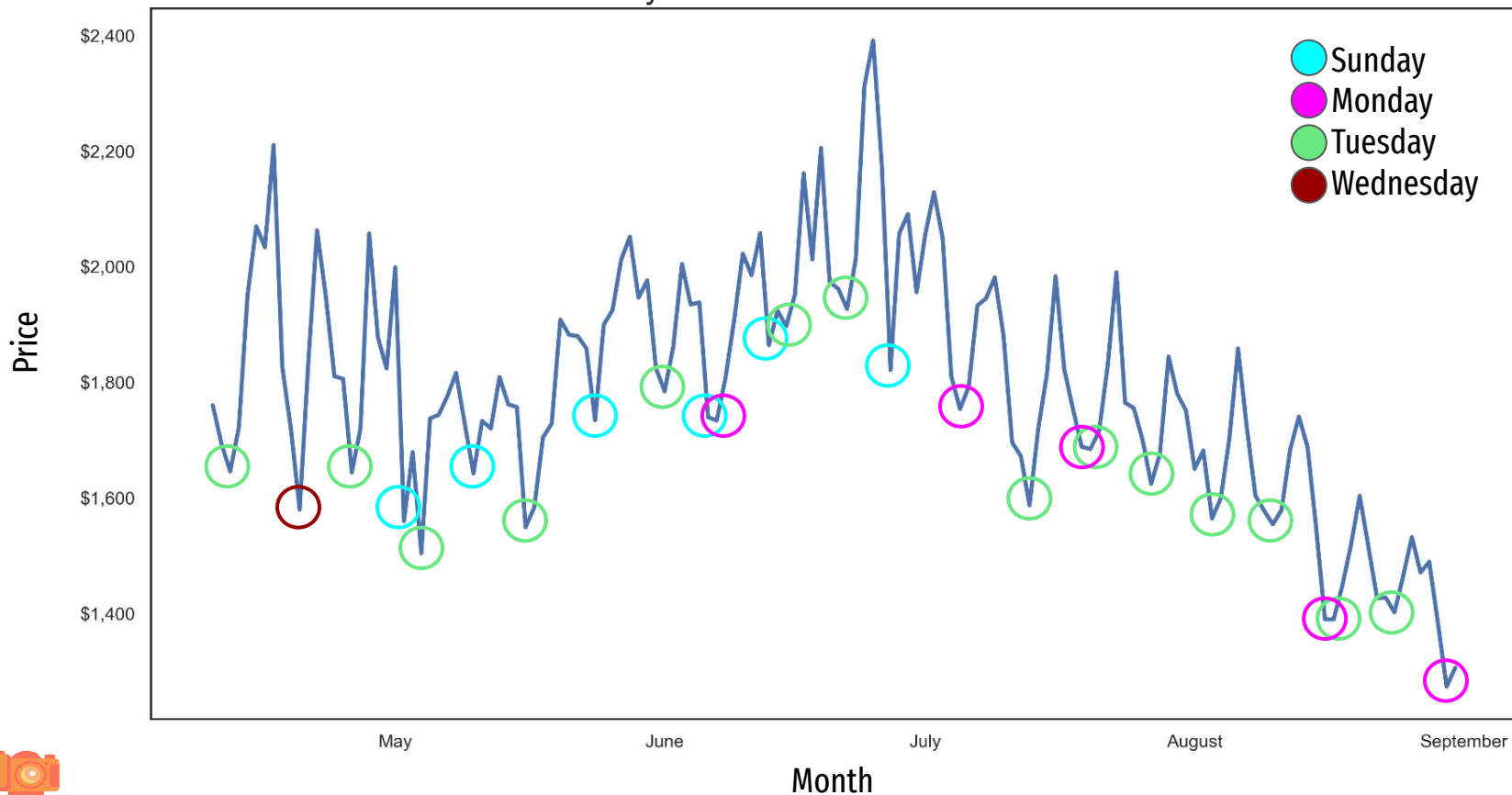
Kayak Plane Ticket Prices 2022



Data

When Should You Purchase Your Ticket?

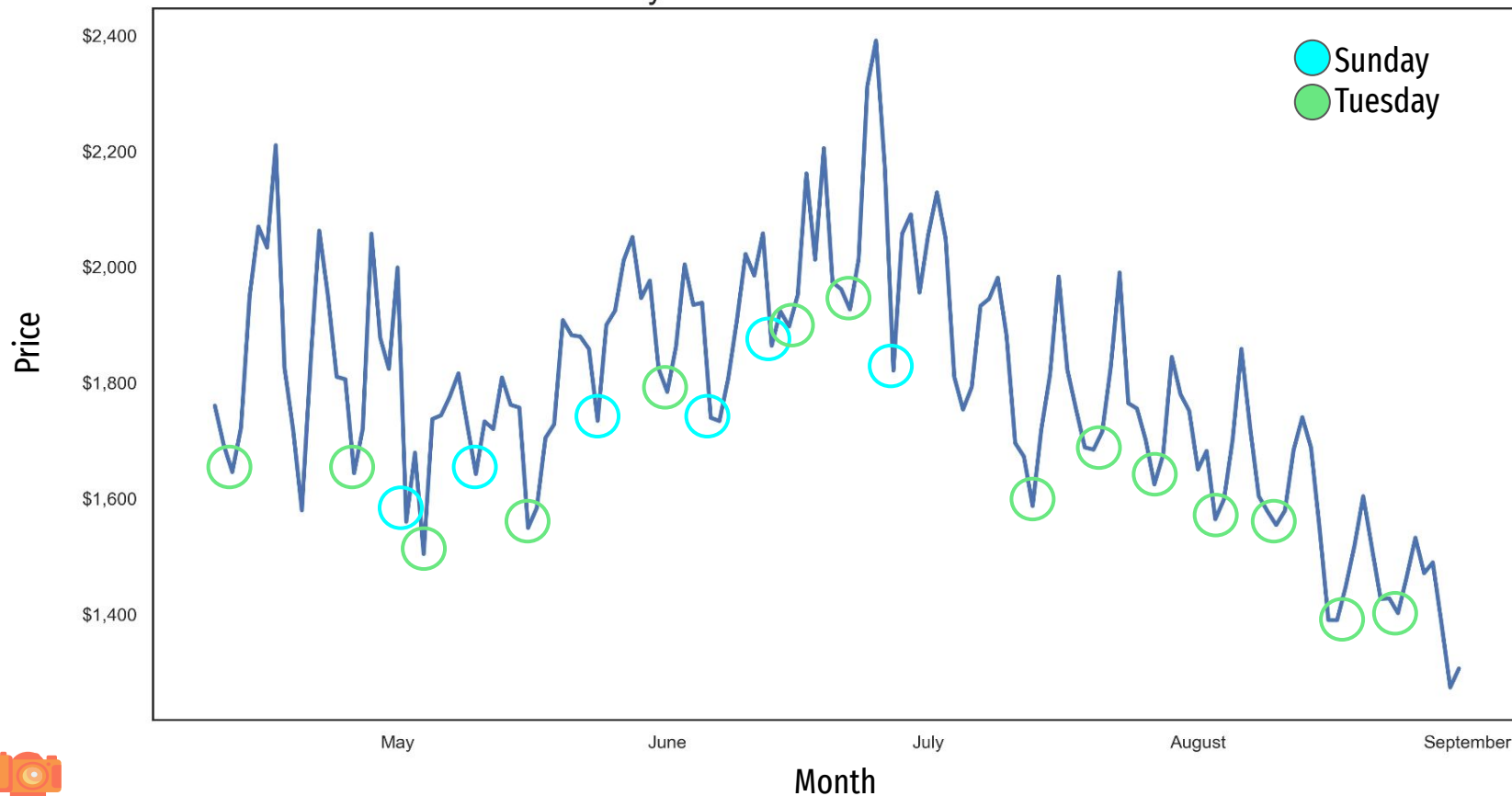
Kayak Plane Ticket Prices 2022



Data

When Should You Purchase Your Ticket?

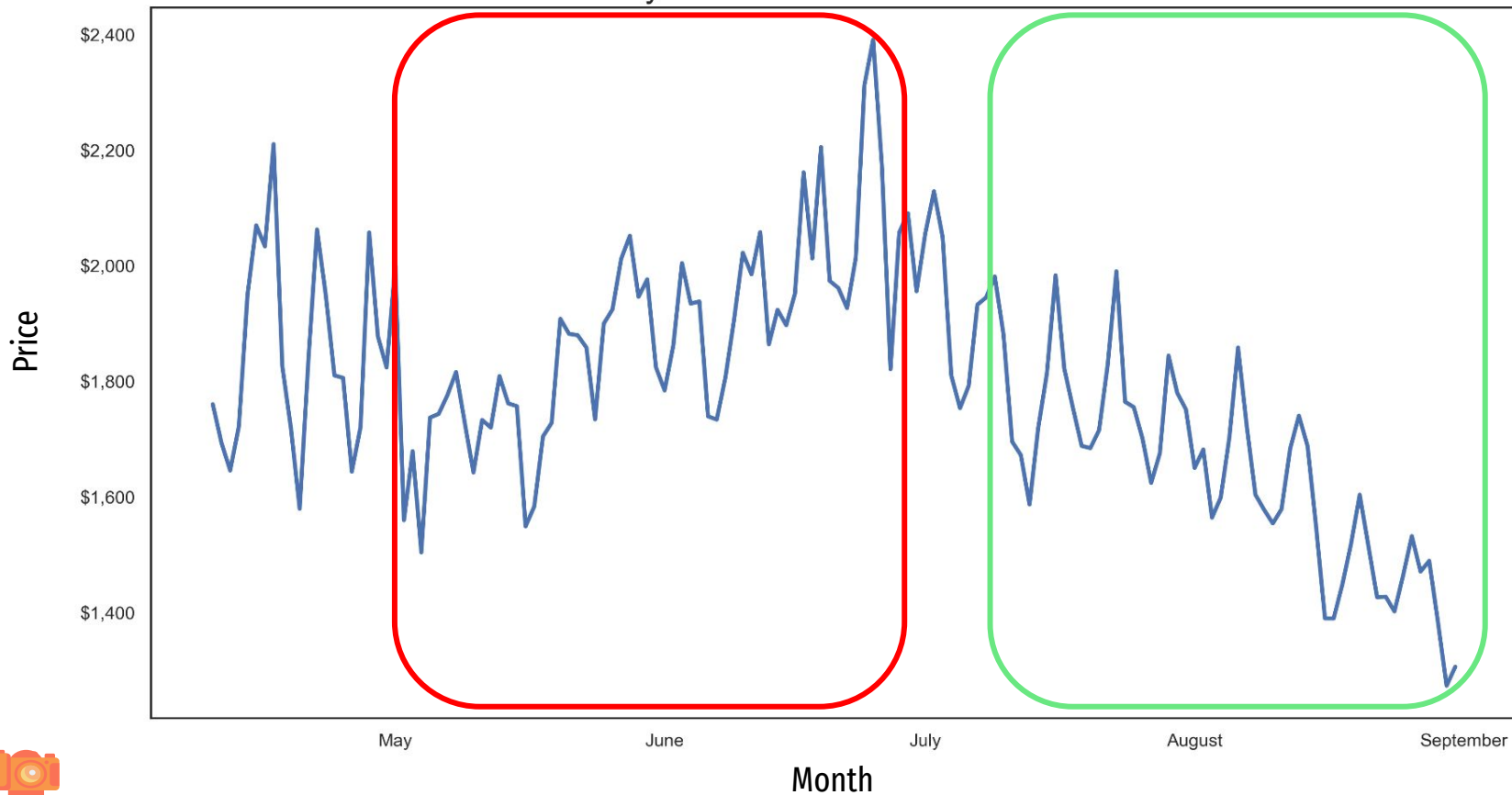
Kayak Plane Ticket Prices 2022



Data

When Should You Purchase Your Ticket?

Kayak Plane Ticket Prices 2022



Data

Methods



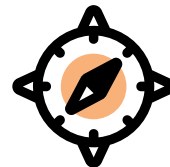
1

Web-Scraping
Scrape Flight Data
From Kayak



2

Data Cleaning
Feature Engineering
Assigning Targets

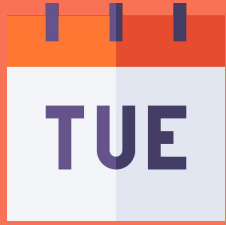


3

Modeling
99.43%
Precision



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



Thank You!
Happy Travels!



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