

Detection of scalpers with multivariable hypothesis test

Step 1

Data
integration

Step 2

Factors
&
parameters
initialization

Step 3

Parameters
revision
based on graphs
comparison
across groups

Step 4

Threshold
&
Test from
outside data

by Ace Killer

→ Megacity || suburban

Scalping is more profitable in metropolitan cities.

→ #tickets/purchase

Scalper tends to buy large amount of tickets a time.

→ Time Difference

While true fans buy tickets at anytime, brokers usually buy in advance.

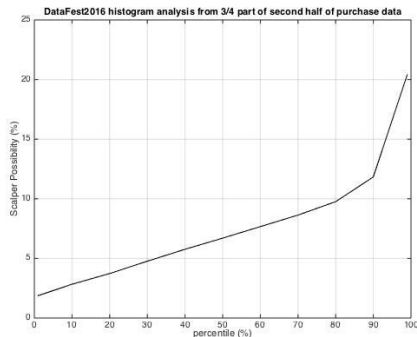
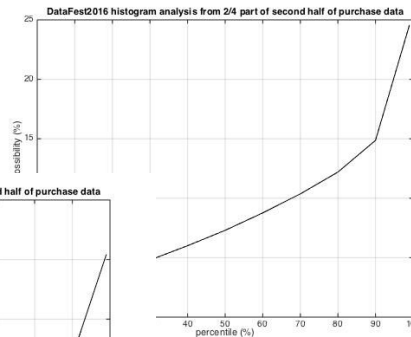
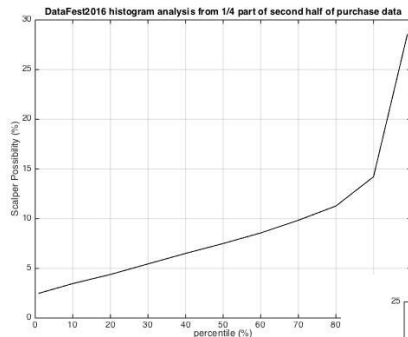
→ Price of tickets

The higher the price, the bigger room for profit.

→ Delivery type

Scalpers don't mail.

Data Consistency



Test from outside

- 4 percent resale activity
- Most scalping immediately after onsale
- Highest quality/lowest quality=4/1

