The background of the slide features a scenic view of a snow-covered mountain range. In the foreground, a skier is seen from behind, wearing dark clothing and holding ski poles, descending a steep slope. The middle ground shows more of the mountain's surface and some clusters of tall, dark evergreen trees. The sky is overcast with a light grey tone.

# Predicting Ski Lift Ticket Prices

Presented By: Harmeet Hora

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Metis, Summer Cohort 2018

## Question

Can we predict lift ticket prices based on a set of features?

Method

How?

Linear Regression!!!

Dataset

**SKI RESORT  
ATTRIBUTES**



**LIFT TICKET  
PRICES**

North American Ski Resorts

## Features

Annual Snowfall (in)

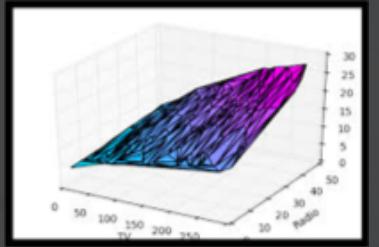
Number of Runs

Vertical Drop (ft)

Uphill Capacity (ppl/hr)

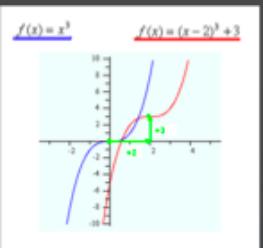
Number of Terrain Parks

# Method



## CREATE MODEL

Create linear regression model based on significant features



## TRANSFORMATIONS

Apply transformations to normalize data



## ANALYZE OUTPUT

Generate regression statistics to draw conclusions from output

## Results

**0.48**

R<sup>2</sup> Value

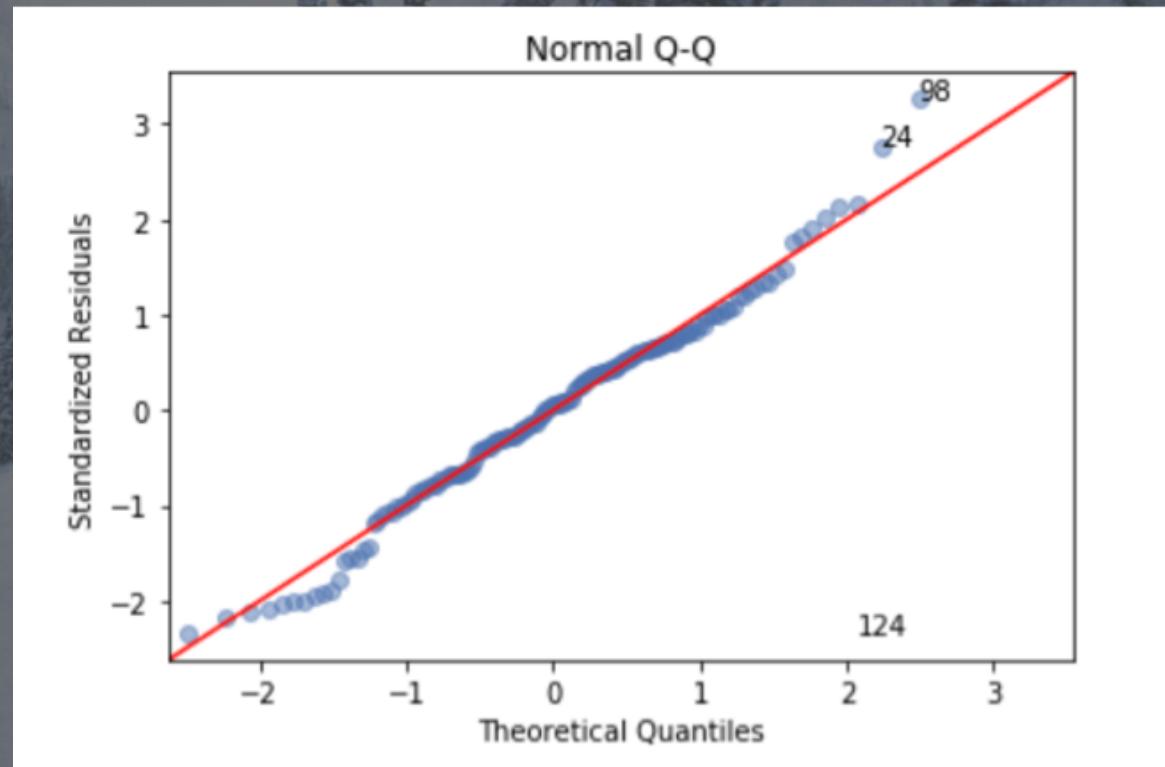
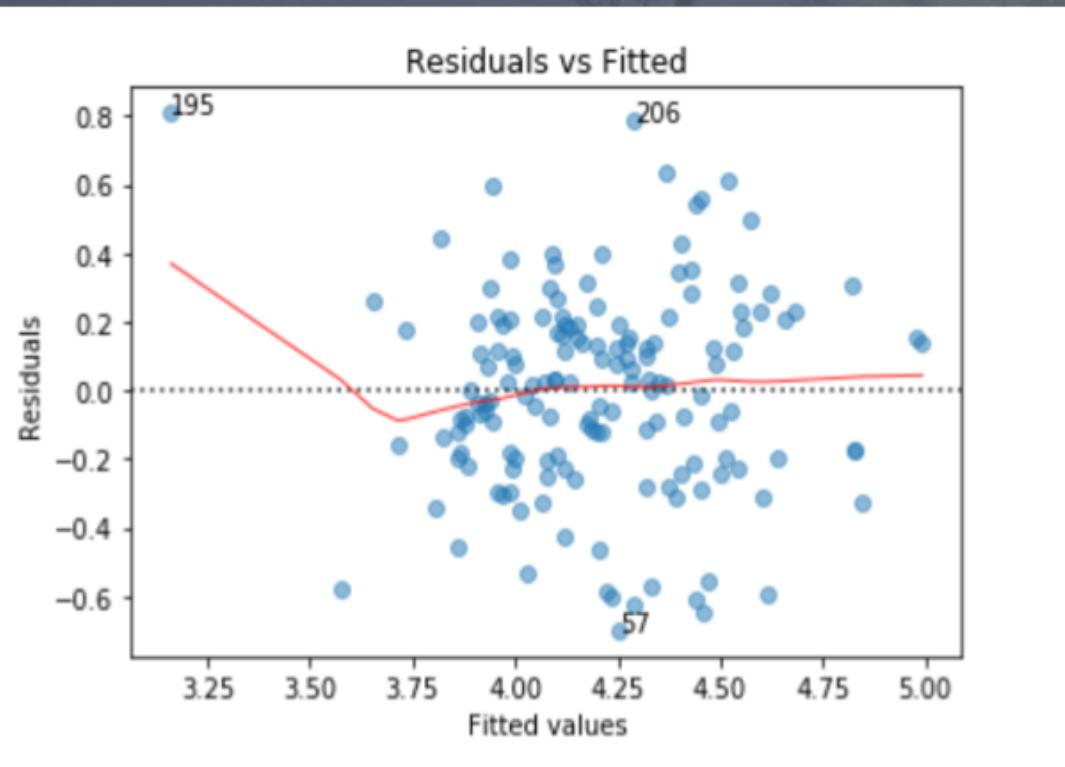
---

**\$22.59**

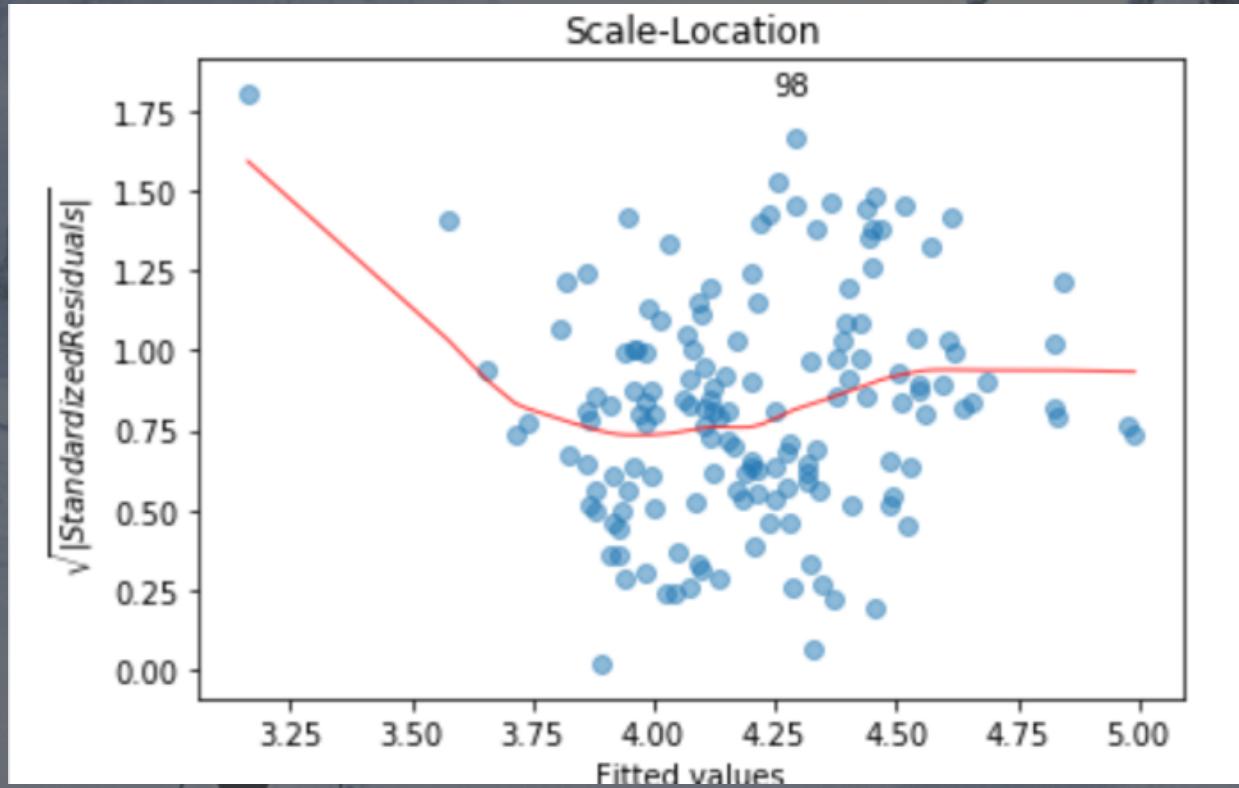
RMSE

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## Diagnostic Plots



## Diagnostic Plots



## Next Steps

More Data

Group by Region/Demographics

More Features

Different model?

Increase Scope

*That's all folks!*