Yosemite National Park

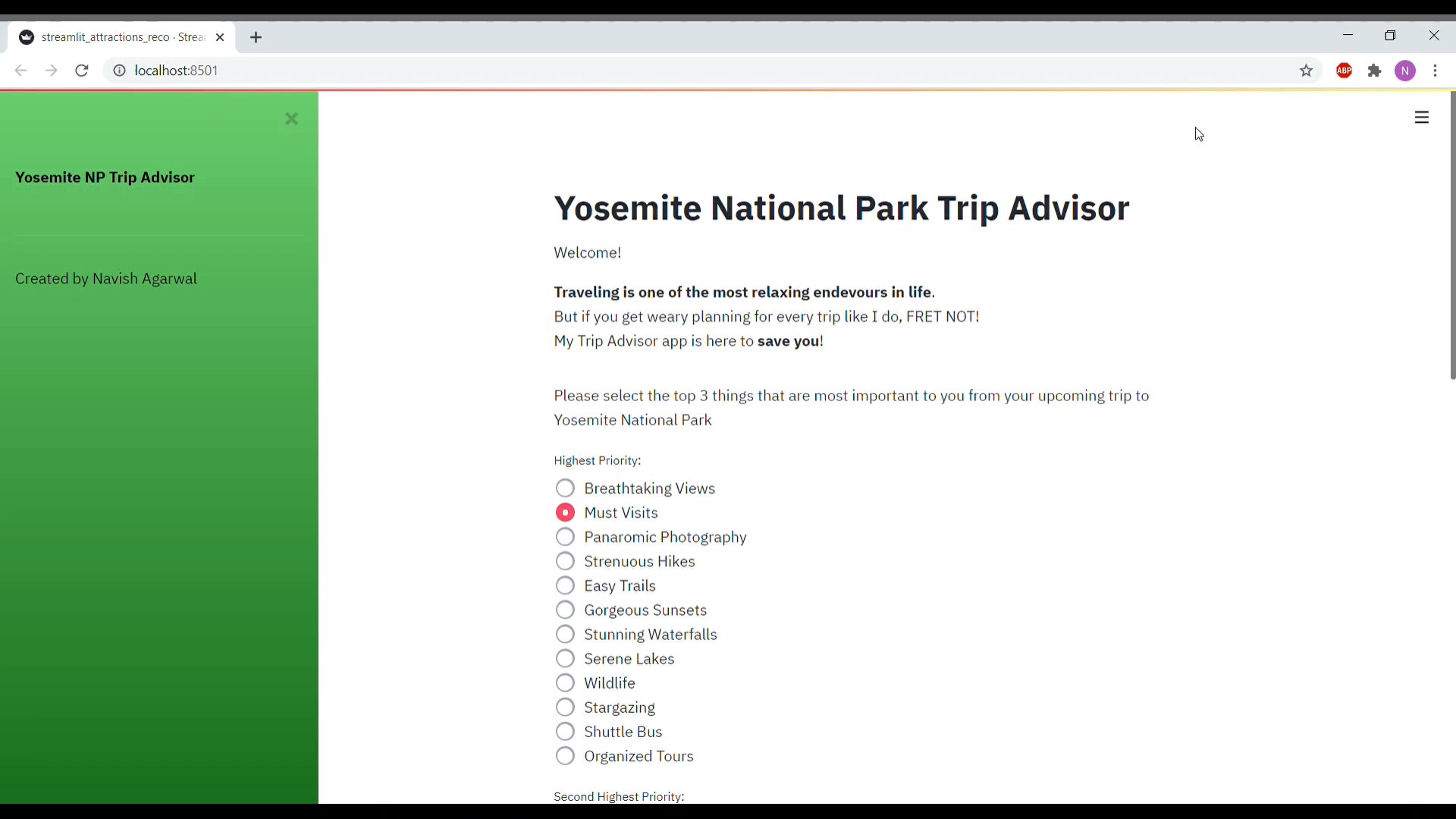## Your Personal Trip Advisor

Using historic reviews & personal preferences to generate a trip itinerary quickly!

By
Navish Agarwal

PLANNING FOR A
TRIP IS LABORIUS!

localhost:8501

Yosemite NP Trip Advisor

Created by Navish Agarwal

Yosemite National Park Trip Advisor

Welcome!

Traveling is one of the most relaxing endevours in life.
But if you get weary planning for every trip like I do, FRET NOT!
My Trip Advisor app is here to **save you!**

Please select the top 3 things that are most important to you from your upcoming trip to Yosemite National Park

Highest Priority:

- ◯ Breathtaking Views
- ⦿ Must Visits
- ◯ Panaromic Photography
- ◯ Strenuous Hikes
- ◯ Easy Trails
- ◯ Gorgeous Sunsets
- ◯ Stunning Waterfalls
- ◯ Serene Lakes
- ◯ Wildlife
- ◯ Stargazing
- ◯ Shuttle Bus
- ◯ Organized Tours

Second Highest Priority:

...the grandest of all the special temples of Nature.....
- John Muir

1 TUNNEL VIEW

2 GLACIER POINT

3 YOSEMITE FALLS
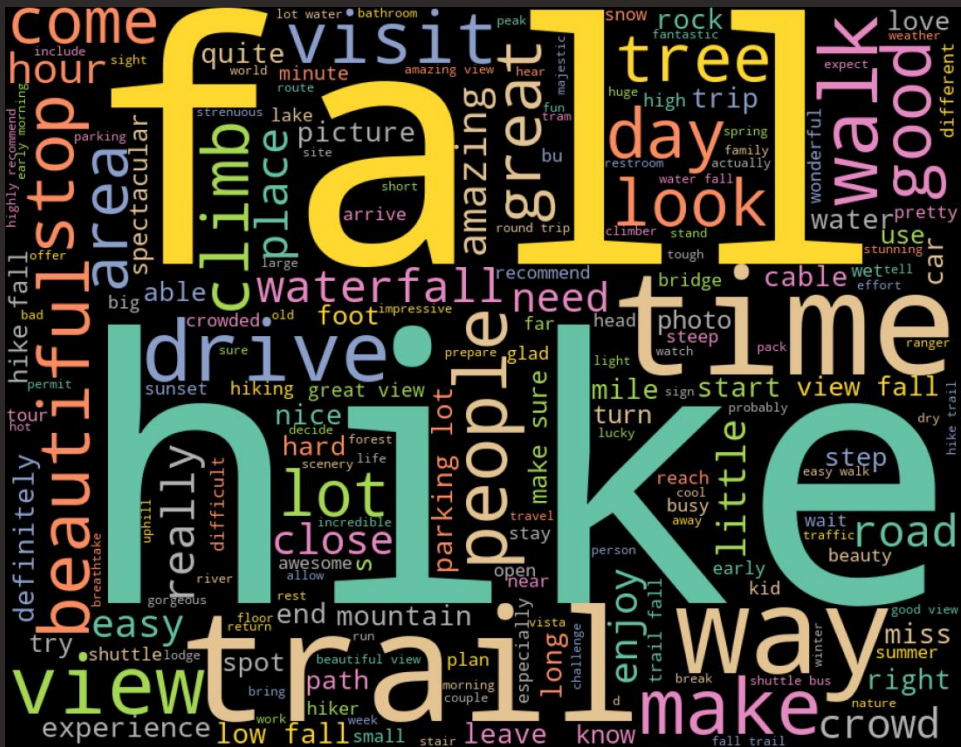
TRIP REVIEWS!

1

2

3

Tripadvisor

BeautifulSoup

NLTK

spaCy

TOPIC MODELING

1

2

3

AND THESE ARE THE TOPICS...

Must Visits

Breathtaking Views

Strenuous Hikes

Wildlife

Stargazing

Shuttle Bus

REVIEWS

Panoramic Photography

Stunning Waterfalls

Organized Tours

Easy Trails

Gorgeous Sunsets

Serene Lakes

AND THESE ARE THE TOPICS...

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Must Visits

Breathtaking Views

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Shuttle Bus

REVIEWS

Panoramic Photography

Stunning Waterfalls

Organized Tours

Easy Trails

Gorgeous Sunsets

Serene Lakes

Exploring a Few Topics

Breathtaking Views

amazing

view

Inspire

awe

Spectacular view

Great view

Beautiful view

amazing view

Exploring a Few Topics

Breathtaking Views

Spectacular view

Great view

amazing

awe

view

Inspire

Beautiful view

amazing view

"..Well worth pulling over to get the view. It is suddenly there at the end of the tunnel as you come in on the Wawona Road. Amazing first view of the Valley..."
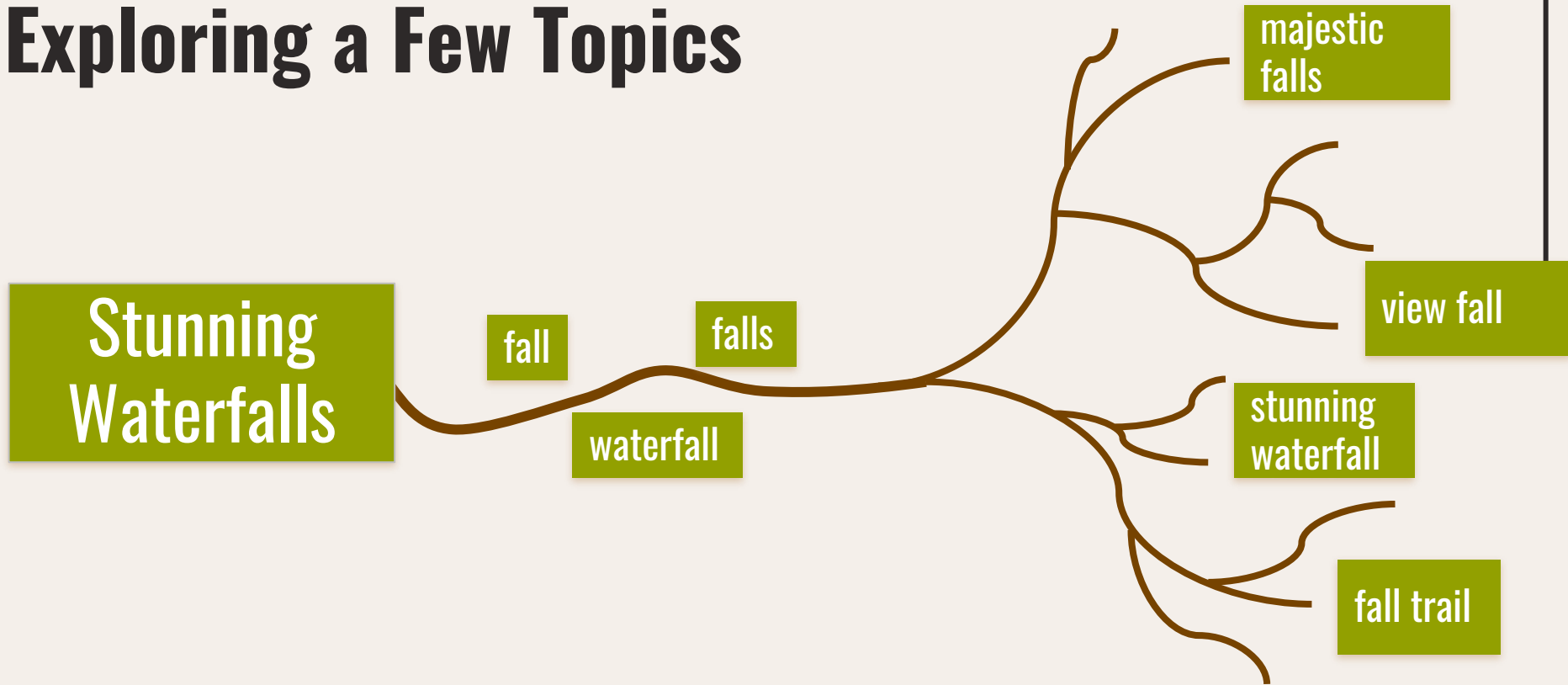
Exploring a Few Topics

Breathtaking Views

Spectacular view

Great view

amazing

awe

view

Inspire

Beautiful view

amazing view

Impact on Positive Review

Log Reg Coef: 0.70

AND THESE ARE THE TOPICS...

Exploring a Few Topics

majestic falls

view fall

Stunning Waterfalls

fall

falls

waterfall

stunning waterfall

fall trail

".. Make sure that you stay with the yosemite area and visit these majestic falls...."

Exploring a Few Topics

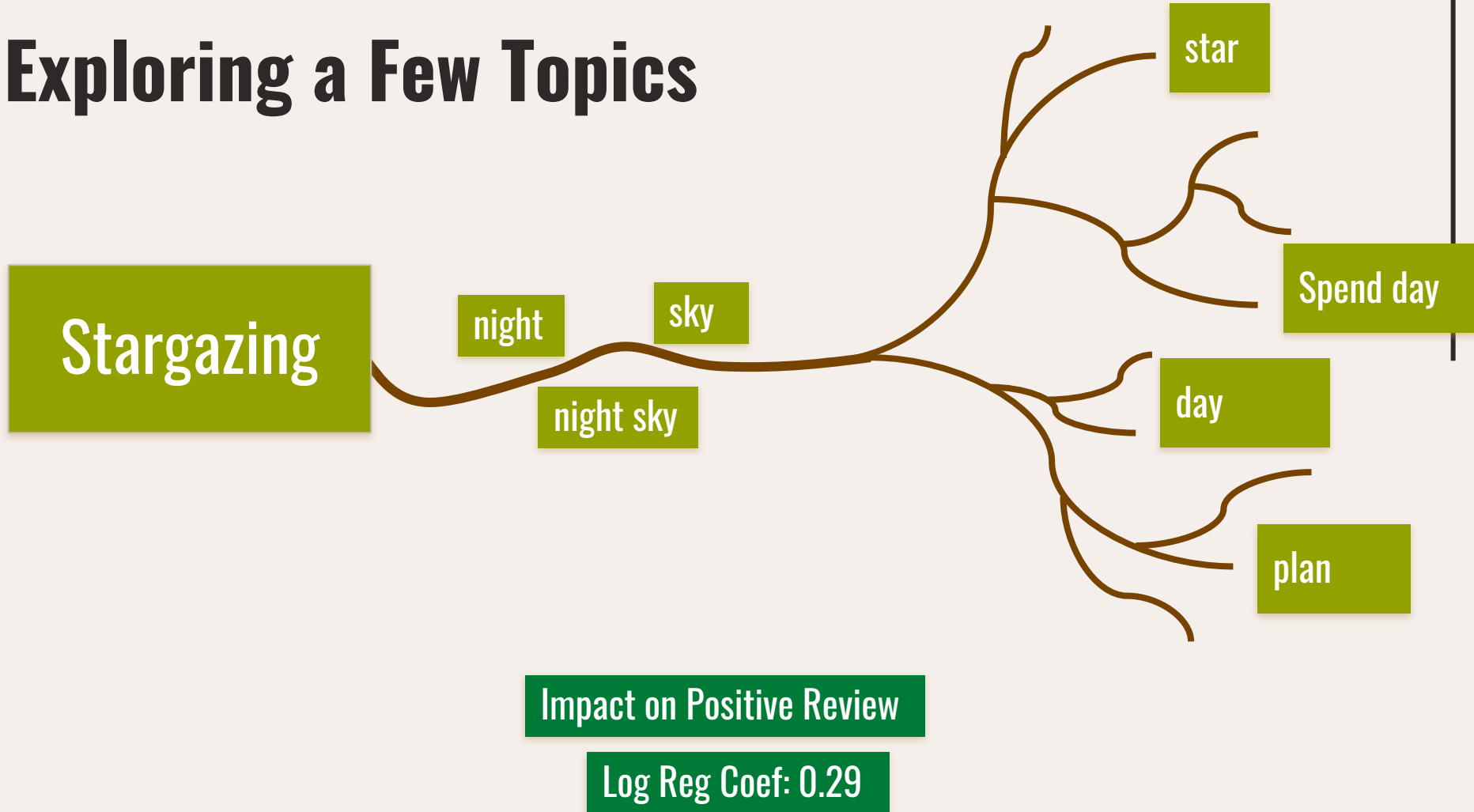Stunning Waterfalls

fall

falls

waterfall

low fall

view fall

stunning waterfall

fall trail

Impact on Positive Review

Log Reg Coef: -0.18

AND THESE ARE THE TOPICS...

Must Visits

Wildlife

Stargazing

Breathtaking Views

Strenuous Hikes

Shuttle Bus

REVIEWS

Panoramic Photography

Stunning Waterfalls

Organized Tours

Easy Trails

Gorgeous Sunsets

Serene Lakes

Exploring a Few Topics

Stargazing

night   sky

night sky

star

Spend day

day

plan

".. This is a beautiful place to visit during the day, but the view at night was incredible!...."

1

2

3

Recomm -
endations

Going Back To The Recommendations

	Breathtaking Views
TUNNEL VIEW	0.76
GLACIER POINT	0.73
YOSEMITE FALL	0.34
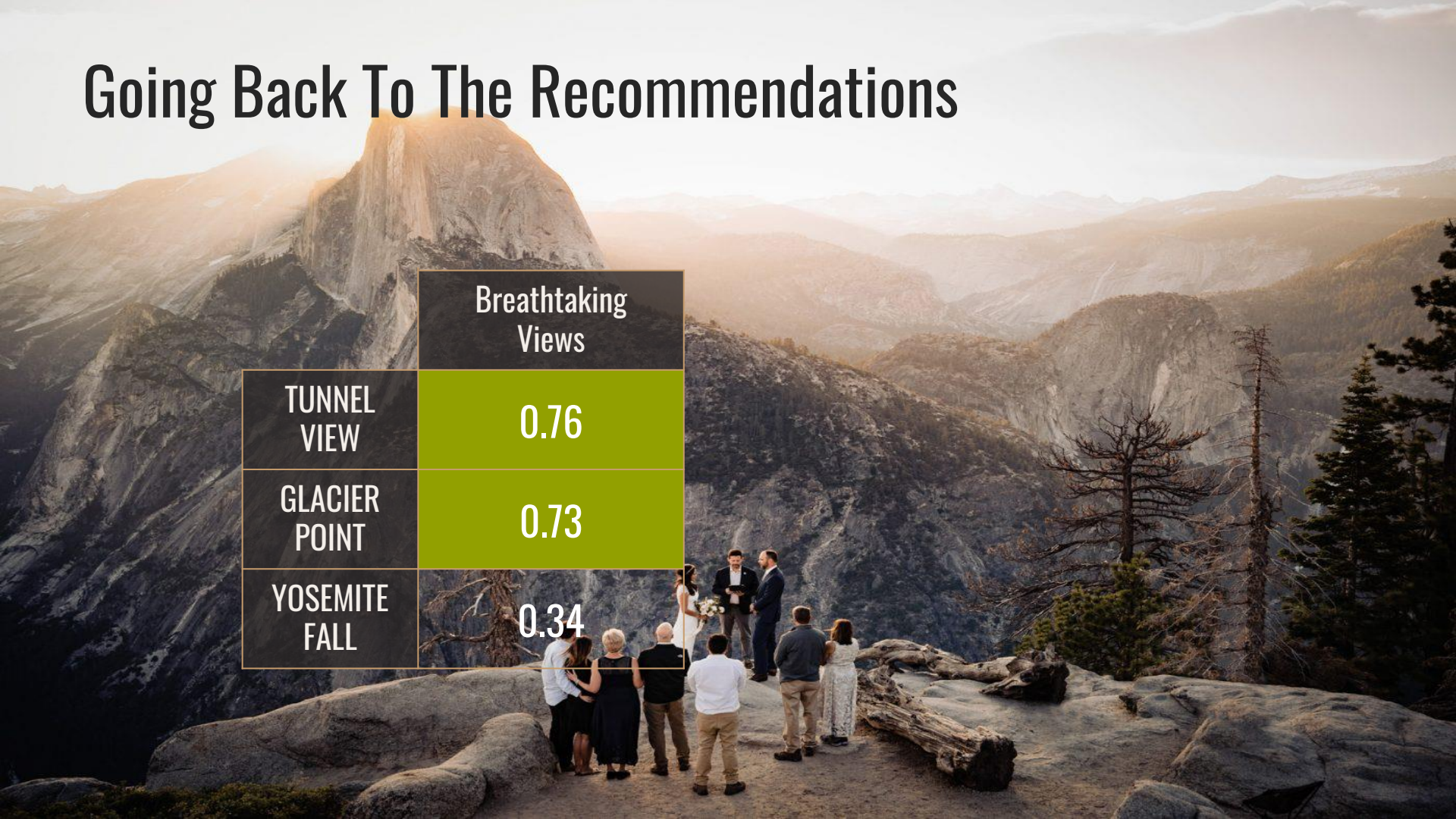
Going Back To The Recommendations

	Breathtaking Views	Stunning Waterfalls
TUNNEL VIEW	0.76	0.16
GLACIER POINT	0.73	0.14
YOSEMITE FALL	0.34	0.79

Going Back To The Recommendations

	Breathtaking Views	Stunning Waterfalls	Stargazing
TUNNEL VIEW	0.76	0.16	0.14
GLACIER POINT	0.73	0.14	0.15
YOSEMITE FALL	0.34	0.79	0.11

THANKS!

Does anyone have any questions?

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Next Steps

Include every attraction in Yosemite & expand to every National Park

Add ability to present & highlight reviews to add legitimacy

Include ability to recommend based on similarities to attractions liked in other National Parks

```
Scores fit on LogisticRegression()
Accuracy: 0.59
Train/Test ratio: 1.06
Precision: 0.98
RECALL: 0.59
Log Loss: 0.65
ROC AUC: 0.65
              precision    recall  f1-score   support

           0       0.06      0.63      0.10        79
           1       0.98      0.59      0.73      2066

    accuracy                           0.59      2145
   macro avg       0.52      0.61      0.42      2145
weighted avg       0.94      0.59      0.71      2145
```
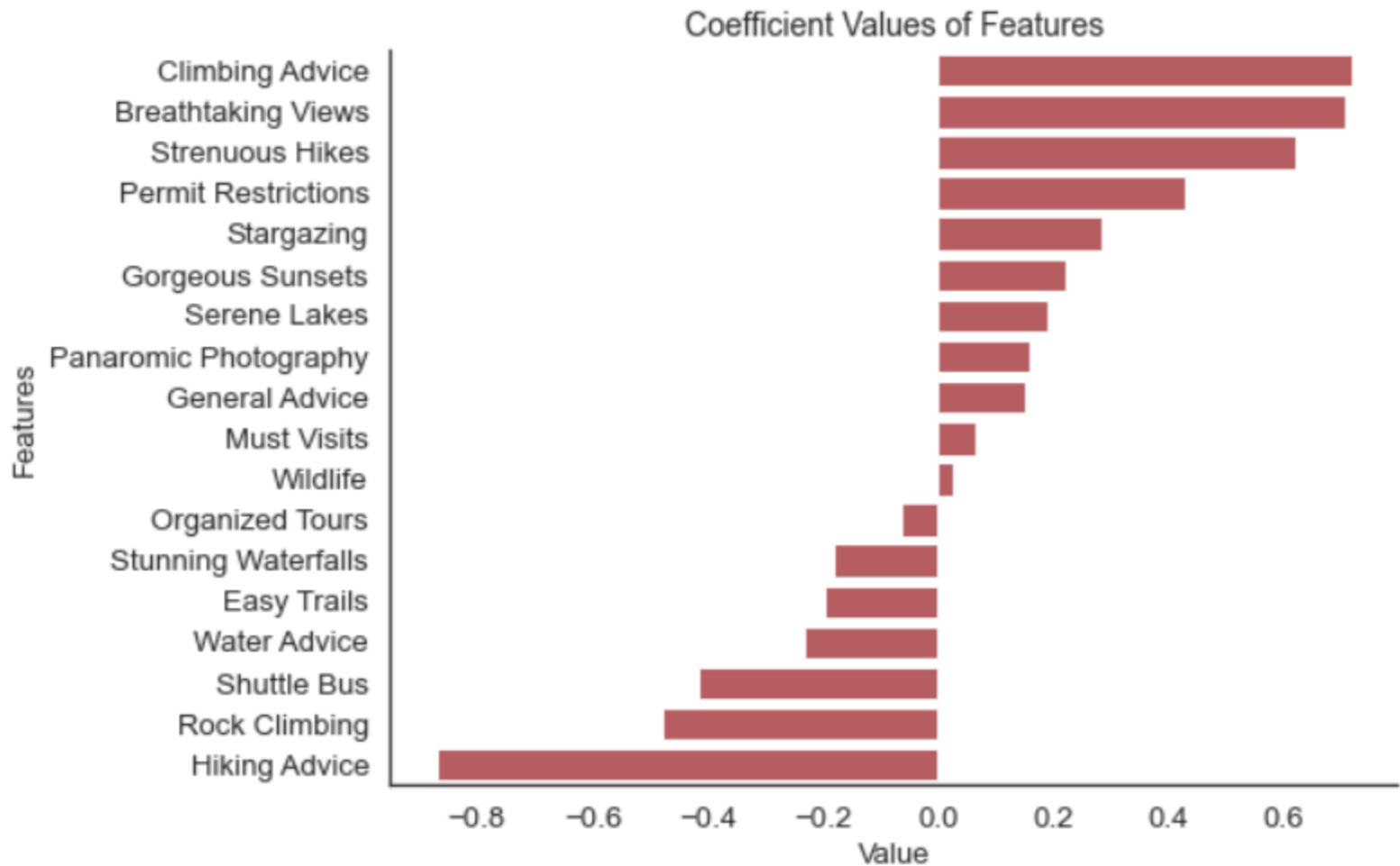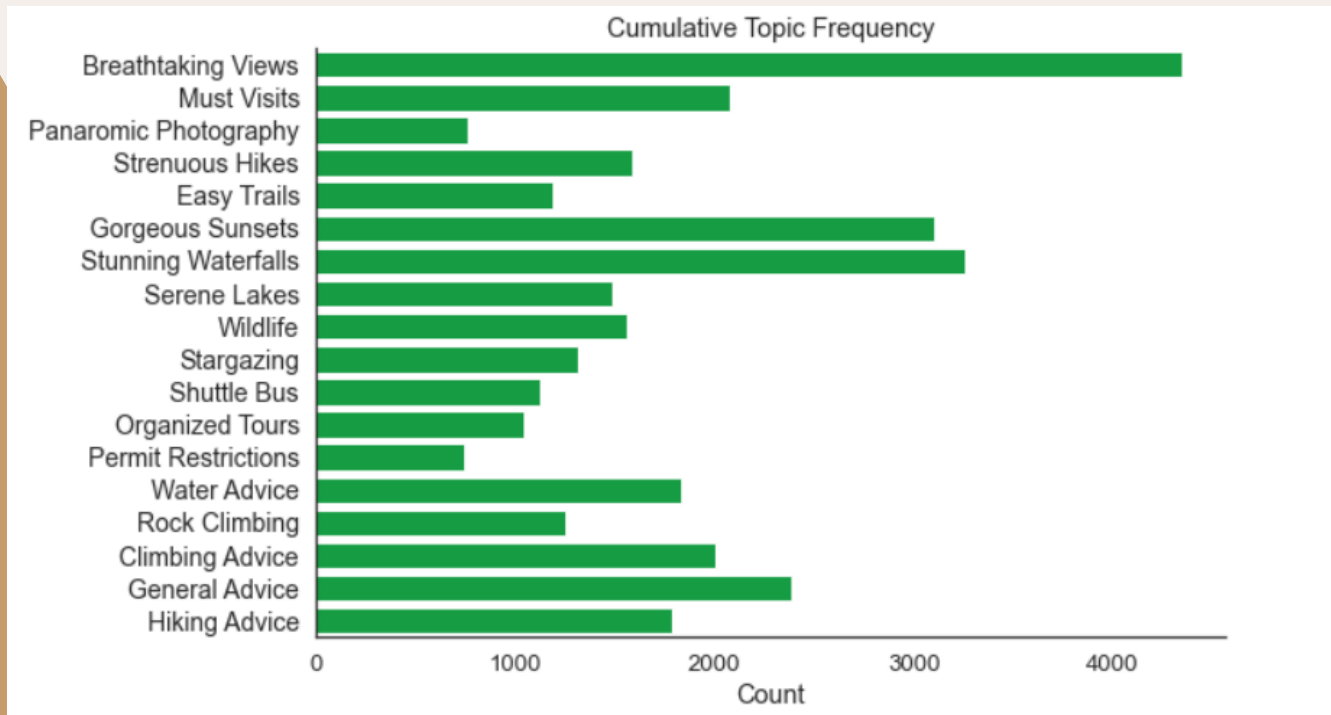
Coefficient Values of Features

Cumulative Topic Frequency

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