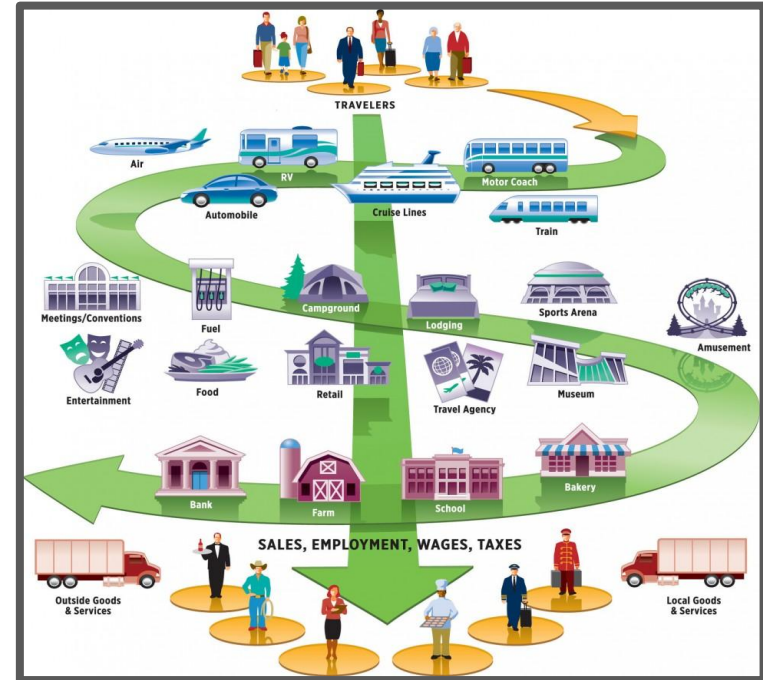
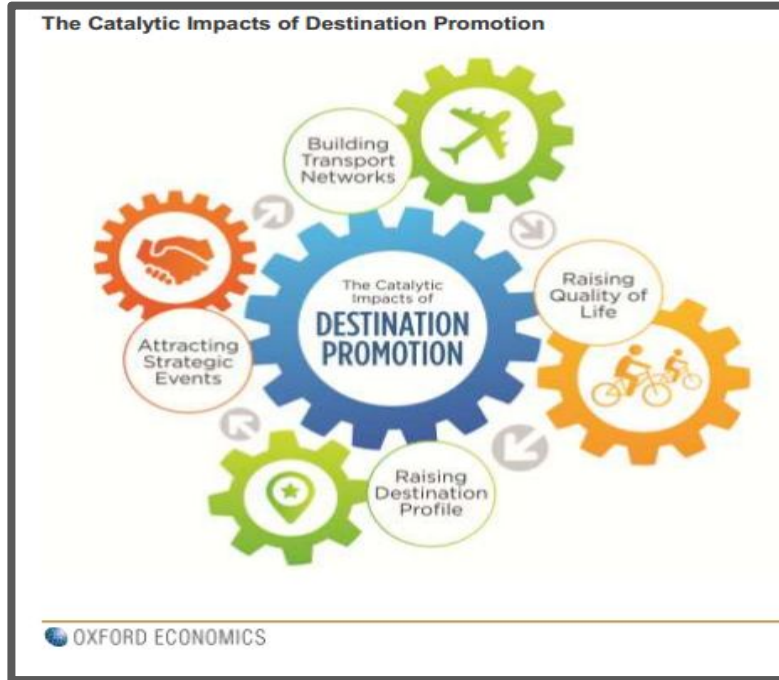


**Chaitanya kalantri(111446728)**  
**Naresh Nalam(111482942)**  
**Ritu Kaushik (111499580)**

# Motivation



# Addressing the SDG Goal Number 8

By 2030, devise and implement policies to promote sustainable tourism that creates jobs and promotes local culture and products

- Tourism direct GDP as a proportion of total GDP and in growth rate
- Number of jobs in tourism industries as a proportion of total jobs and growth rate of jobs



# Economic Growth and Tourism Trend



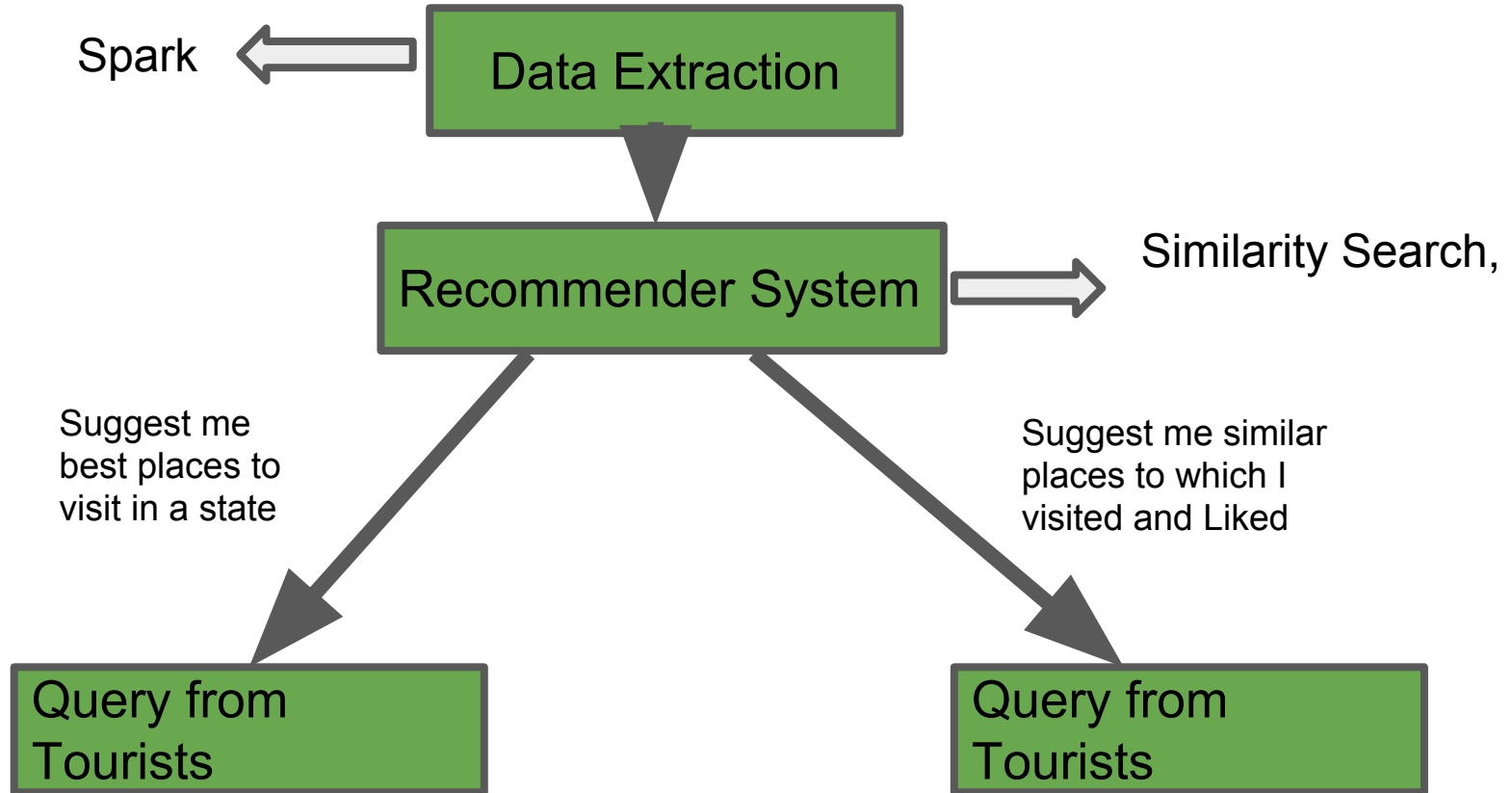
## **Data Sources:**

- Twitter Archive Team (15 Gb)
- Scraping from TripAdvisor
- Economic Data from World Travel and Tourism Council (WTTC)

## **Dataset Description:**

- Tourist attractions in all 50 states in United States by county and genres.
- Number of people visiting those places in different months from 2007 to 2011.
- 80 Genres of Tourist Places

# Flow Diagram



# Methods



US Tourist  
Places

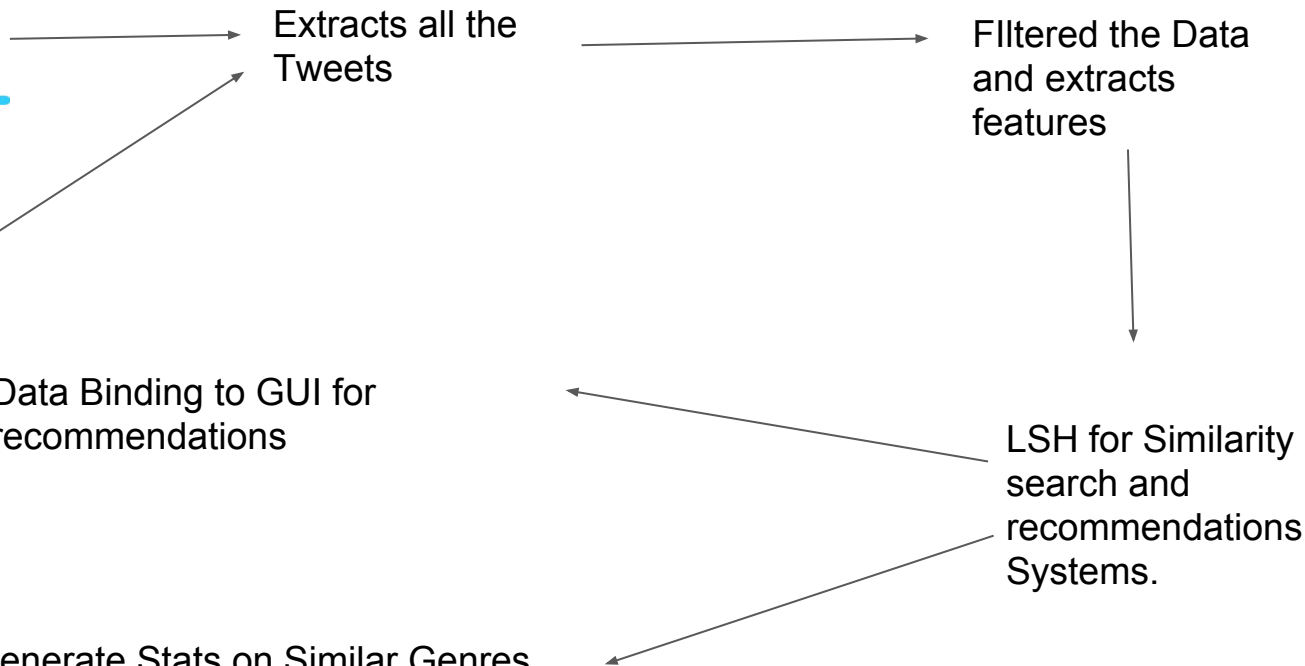
Extracts all the  
Tweets

Filtered the Data  
and extracts  
features

Data Binding to GUI for  
recommendations

LSH for Similarity  
search and  
recommendations  
Systems.

Generate Stats on Similar Genres,  
Similar States,,Counties,Tourist  
Spots, States with highest tourism



# Results and analysis

## **Similar Genres in terms popular tourism in US:**

'bodies of water', -- 'casinos', conference & convention centers', 'biking trails'

'Educational Sites' -- 'landmarks', 'art museums', 'lighthouses', "children's museums", 'distilleries',  
'canyons, national park'

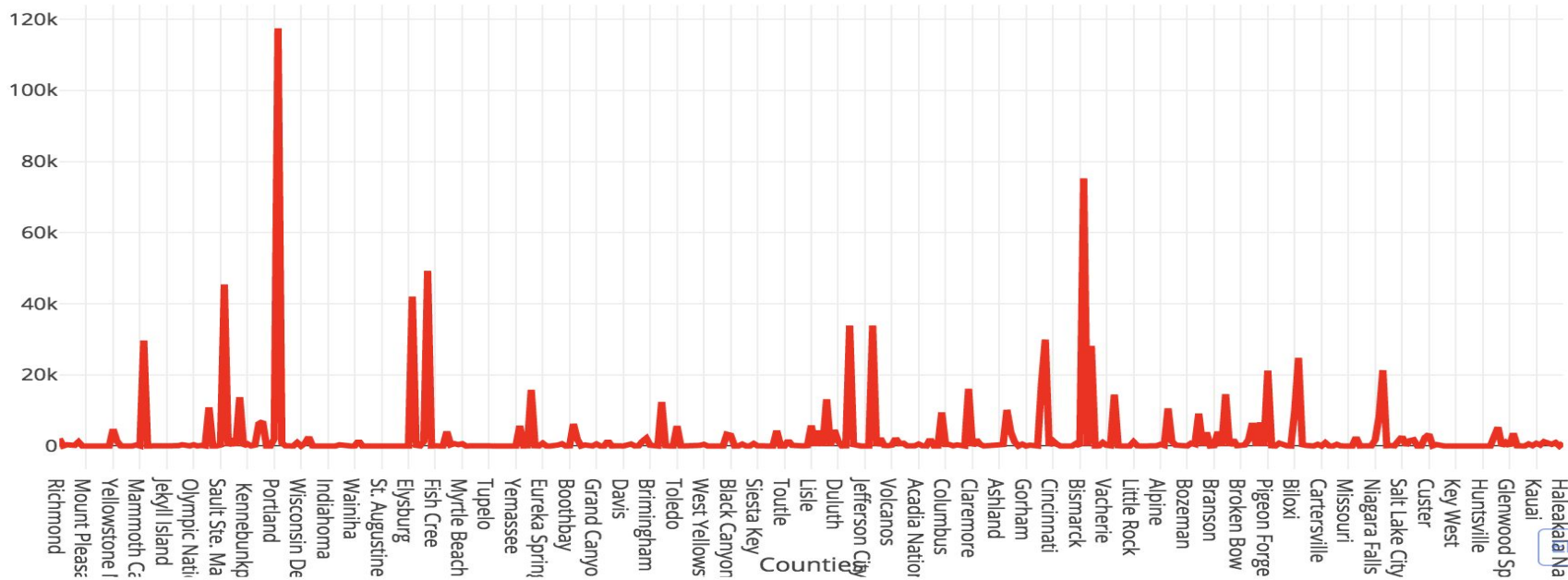
## **Similar States** in terms of tourism contribution:

'Virginia',	'new york'
'Iowa'	-- 'Alaska'
'Indiana'	'Oklahoma', 'Michigan'
'texas',	'wisconsin', 'connecticut',



# Results and analysis continued...

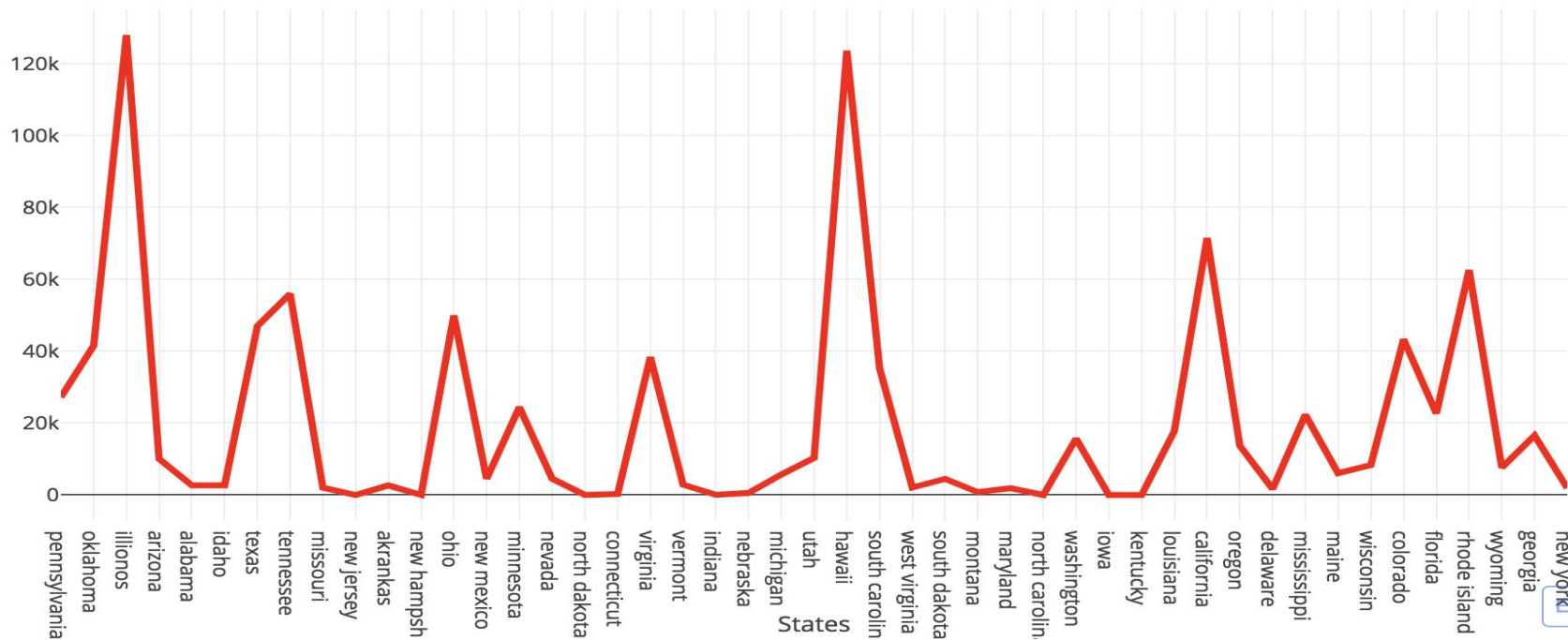
Tourism distribution in counties



# Results and analysis continued..



Tourism distribution in states



EDIT CHART

# Application design

similar places based on popularity

1.museumofidaho

2.soolocks

3.vulcanparkandmuseum

4.firstwhitehouseoftheconfederacy

5.usaskidd


6.rimtrail

7.fishcreekfalls

8.shorepath

9.portlandmuseumofart

Planning your next trip?



Need Statewise Suggestions? Enter State

Enter

Enter the name of your favorite tourist spot you have visited and loved!

Popular places in this state!

1.The National 9/11 Memorial & Museum

2.The Metropolitan Museum of Art

3.Top of the Rock Observation Deck

4.Manhattan Skyline

5.Grand Central Terminal


6.The High Line

7.Broadway

8.Empire State Building

9.Brooklyn Bridge

Planning your next trip?



Need Statewise Suggestions? Enter State

Enter

Enter the name of your favorite tourist spot you have visited and loved!

check out similar places

## Concepts Covered:

1. Spark Technology: Data Preprocessing
2. Social Media Text Analysis
3. Similarity search (Locality sensitive hashing)
4. Recommendation systems



# Team Work

- Twitter Data Extraction- Chaitanya
- Data preprocessing – All of us
- Similarity Search and LSH- Naresh
- Recommender system- All of us
- GUI , Economic data analysis– Ritu
- Report and presentations slides – All of us

# Summary

- Tourism has direct impact on the economy and GDP of a state.
- The recommender system developed helps in suggesting
  - The most popular tourist places visited.
  - Similar Tourist place suggestion for a Visitor
  - Stats on Tourism.
  - Best time to visit any tourist spot
- Stats on Tourism can help government to improve tourism which can boost Economy

# References:

- [1] <https://www.tripadvisor.com>
- [2] <https://www.wttc.org/datagateway/>
- [3] <https://wiki.python.org/moin/TkInter>
- [4] <http://www.undp.org/content/undp/en/home/sustainable-development-goals/goal-8-decent-work-and-economic-growth.html>
- [5] <https://archive.org/details/twitterstream>
- [6] <https://plot.ly/python/line-charts/>

*Thank  
you*

