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TOURISTGRID

Avoid crowd the smart way.



INTRODUCTION

Crowd prediction attempts to predict crowd volume at a certain location at peak interest time .

Prime example of crowd prediction algorithm are the crowd calendars at theme parks like disneyland. The north carolina state university gives prominent funding in crowd prediction development models. The crowd prediction processing uses machine learning,data mining,artificial intelligence among various different computer dynamic tech used.

ABSTRACT

Computers have made their way into all realms of human actions. Crowd occurs due to popular event/festivities which attracts large crowd that demands immediate and instantaneous service. Research solutions till date propose dynamic substitution of resources which is not cost effective.

We develop a generic model that tracks trending topics in Twitter,instagram,etc by extracting features through sentiment analysis, sarcasm analysis, trend analysis, emotional divergence, hashtag processing and mainly collecting data from railway bookings,hotel bookings,etc.

OUR TEAM



01

NEIL SRINGARPURE

Team Leader

Guiding the entire team and supervising the documentation.

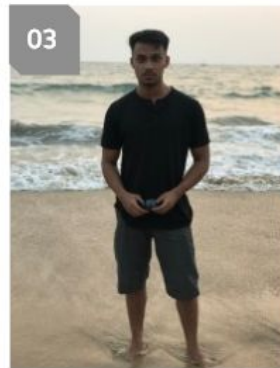


02

KARTIK KOKANE

Developer

Handling databases and focusing mainly on Machine Learning and NLP



03

ROHIT DHURI

Front End Designer

Developing front end using HTML5 and CSS3 to make the simplest GUI.



04

PRATIK JOGDAND

Developer

Developing Data Mining frameworks to provide data sets to the system.

PROPOSED SYSTEM

Our objective is to predict similar places that addresses degradation of tourist experience caused by the crowd.

Scans the Current scenario of the location and if the predictions say that the location is going to be too crowded, it suggests you an alternative place for your precious vacation which will surely be less crowded than the place you want to visit which will fulfil all your requirements.

For example : You want to experience Snow, Mountains, basically a really cool hill station. Most likely you will visit Shimla. Our System predicts that there will be 160% crowd as compare to the median crowd (~100%). Our System will then suggest few places which will be quite similar to place you want to visit but it will less likely be crowded.

TECHNOLOGY STACK

For social media:

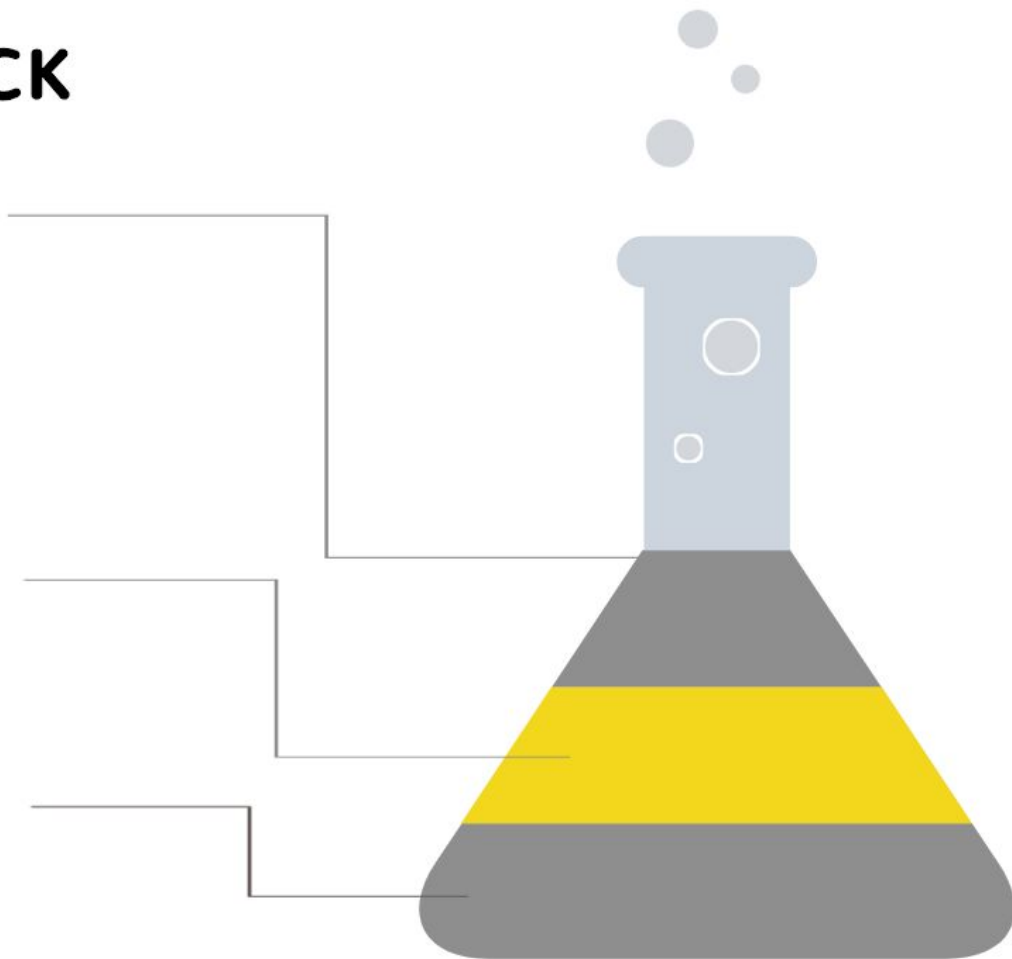
- sentiment analysis
- sarcasm analysis
- trend analysis
- hash tag processing
- location updates

For Front end:

- Html,
- css
- java script
- android studio
- Bootstrap

Back end:

- database software, and various application development platforms (firebase etc)
- OS(Windows),python for machine learning,etc .



ROADMAP

Planning to execute project by the team.

Month 1

Education

Learning all the necessary concepts which are going to be used to develop the project through educational websites such as Udemy, Youtube and many others.



Month 3

Developing main use case

After observing smaller use case results we will select the best use case and then start developing the backend needed with added features and light front end.



Month 5

Testing

Start testing the system and making minor alterations to make the system as perfect as possible and start with documentation



Month 2

Start Developing

Start developing smaller use cases to figure out the best use case to develop further system on



Month 4

Marriage

Creating final front end and then fusing it with the developed back end to achieve desired results.



Month 6

Final Documentation

Gearing up for deployment and completion of final documentation.



DEPLOYMENT

DEPENDENCIES



DATA
MINING

#1

Values keep changing frequently



INTERNET
CONNECTION

#2

Must have a stable internet connection.



SPECIAL
CASES

#3

Sudden change at the location. Natural disaster, terrorist attack etc.

In the world around you a dependency is the state of existence of an entity or an item such that its stability is dictated by another entity or resource.

Firstly for running our system the user will require a basic internet connection and a compatible OS with a modern web browser. Multiple factors such as twitter and instagram hashtags, airline or railway bookings, airline or rail or any transport system price hikes, hotel bookings/ price hikes will deviate a particular value.

Now this particular value will help us predict the concentration of crowd in the near future.

THANKS!

Thank You!!!

