



The Safer India Challenge 2017 - 2018 By INDIAN ROAD SAFETY CAMPAIGN



























REPORT

Name of the event: - HACKATHON

ABSTRACT-

• iSAFE 2017 - 18, the safer India challenge is an annual championship that is being conducted under the Indian Road Safety Campaign in association with Ministry of Road Transport and Highways, Delhi Traffic Police, National Service Scheme and Diageo India pvt Itd with the motive of reducing the accidents to Half by 2020.

Scope Of Our Website

- ✓ Choosing safest possible route according to history.
- √Reduce accidents due to Over Speeding.

Details-

Every day many people dies in road accidents due to over speeding or by choosing route which is not safe for journey.

Possible Solution

- An app or website can be made which allow user to get the most safe route based on the number of previous accidents on the route.
- It also must tell the maximum speed in an particular area and warns the user he/she crosses that limit.

Safe Traveller

- Uses state of the art machine learning models to find the number of accidents on routes(as a background process) and then tell user the most safest route for their journey.
- Tell user about the optimum speed to be followed for every single path of his selected route
- Allow user to see his/her past journey and other details such as time taken and average speed.

Tech Stack Used

- Python
- Machine Learning Frameworks like Numpy, Pandas, Plotly
- HTML,CSS and Javascript
- Google APIs
- Django

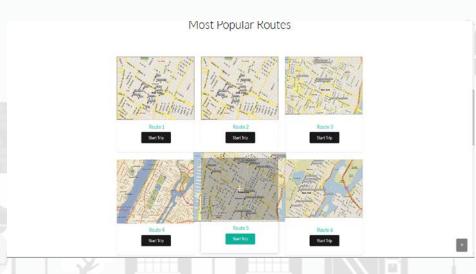
Working

- First user has to create a account and then login to our website.
- Then he has to select the country, city, location, destination and time on main page.
- After clicking submit button, all possible routes to the destination will be shown and most safest will be highlighted green.
- After selecting route the map of the selected route will open and will give user the direction and optimum speed to follow to the user.
- After completion of journey the data such as average speed and time will store in recent trips tabs which can be view later

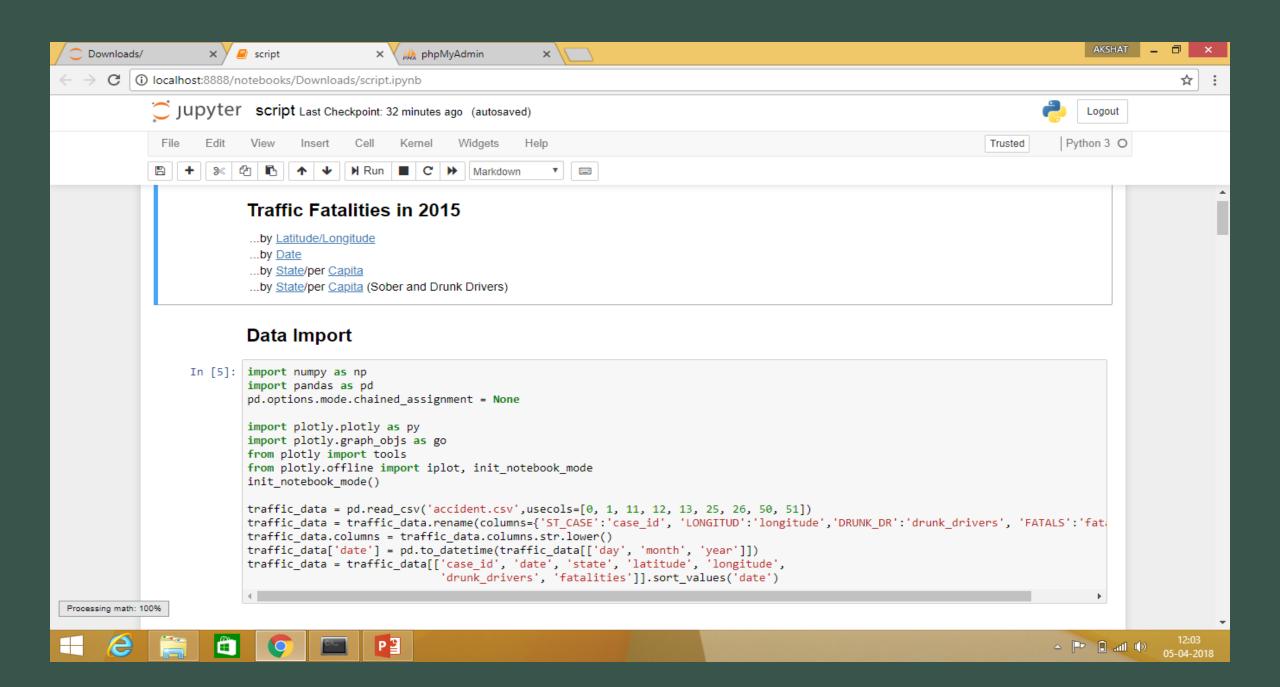
User Interface

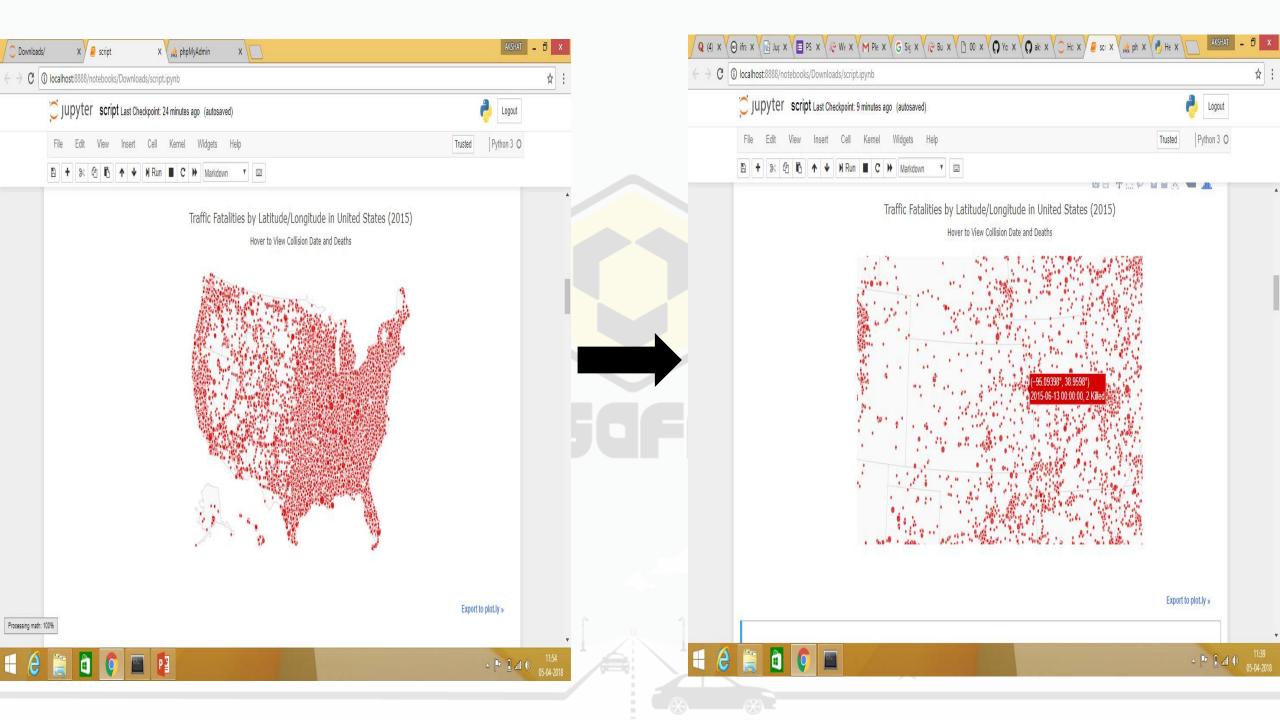


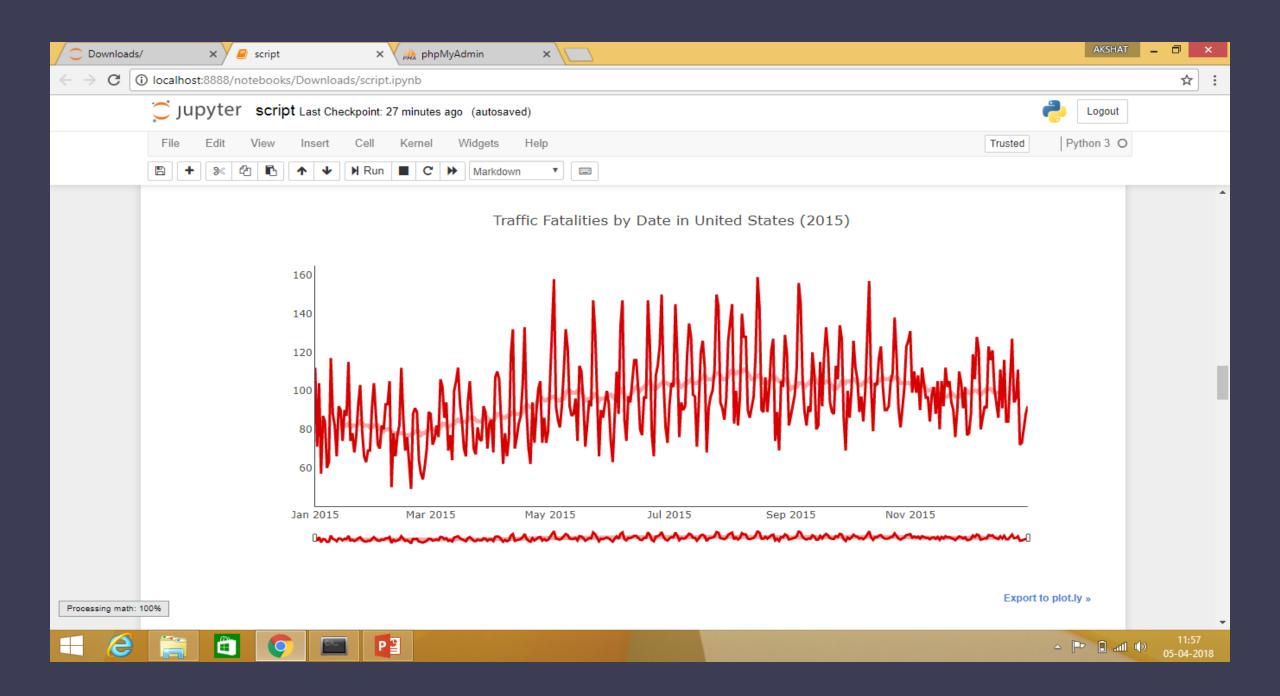


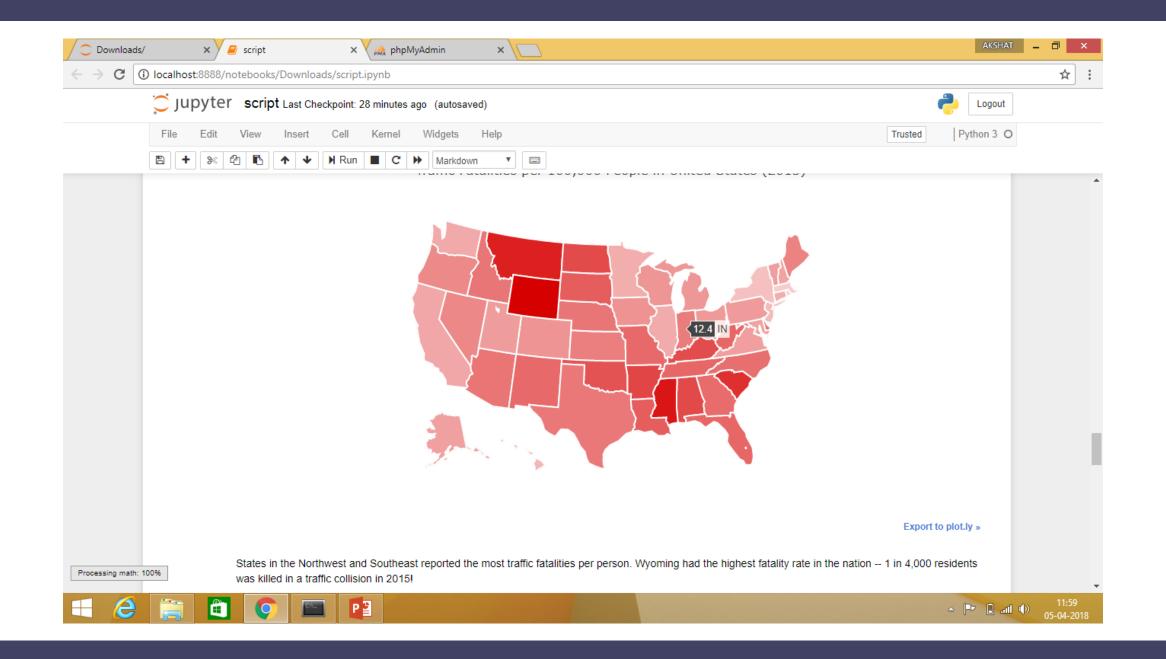




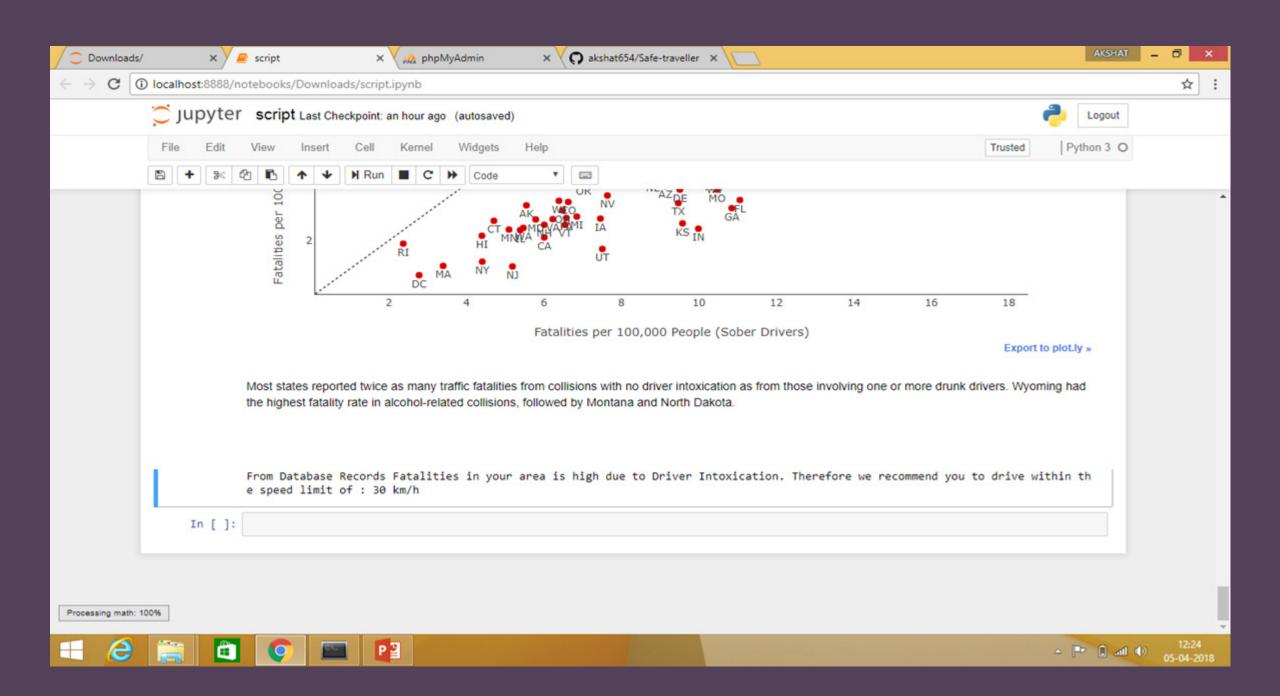












Future Roadmap

- Increase the number of country and area covered
- Link this with the police database
- Improving the machine model
- To develop mobile app of this website











