Finding the safest places to ride a bike in Los Angeles

Team Members:

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In our term project we want to analyse a crime dataset in combination with a bike ride dataset with purpose of finding the safest places to ride a bike in Los Angeles.

Data:

We're going to use datasets and map provided by official website of open data of Los Angeles(https://data.lacity.org/).

"Arrest Data from 2010 to Present" dataset contains 1.31M records and each record consists of 17 features. The most interesting features are Arrest date, Time, Area Name, Location, Charge Group Code, Arrest Type Code.

"Metro Bike Share Trip Data" dataset contains 132k records and each record consists of 16 features. The most interesting features are Starting Station Latitude, Starting Station Longitude, Ending Station Latitude, Ending Station Longitude.

"Bikelanes" map is a set of geospatial data which contains information about bike lanes. It is possible to export this data in different formats(KML, KMZ, shapefile, json etc).

Goal:

The main goal is to visualize (e.g. map) safe and rather unsafe places to go for a bike ride during different times of day. Moreover the possible threads a biker might face are presented.

Team members responsibilities:

- Prepare project [PAWEL]
- Exploratory data analysis of given datasets [MARTIN, PAWEL]
- Putting together crimes, bike and map together for new outcomes [PAWEL, MARTIN]
- Visualisation of the results [PAWEL]
- Report and Presentation [MARTIN]

Prefered time slot for presentation:

We would prefer the first time slot for our presentation. (Dec. 23, 2019)