

# 6190 Course Project Proposal

## Urban Crime Analysis

### Problem Statement

This project aims at providing urban crime analysis. The dataset provides historic data criminal offenses in the San Francisco city.

### Inspiration

With the increasing wealth inequality, limited resources and rising aspirations the crime in cities is also increasing rapidly. This makes citizens feel unsafe and cops busy. But there might be a pattern in the way the crimes take place. This project attempts to find out those patterns in order to tackle the crime efficiently.

### Achievable goals

Clustering of dangerous city neighborhoods.

Identifying frequent types of crime.

Identifying most dangerous period i.e. day and time.

Identifying pattern in type of crime and time and day.

### Likely to accomplish

Visualizing neighborhoods and the crime category at the given time and day

### Ideal accomplishment

The system will be able to advice user on the risk level in a neighborhood at a given time and day.

### Dataset description

The dataset is taken from one of the problems in kaggle competitions.

<https://www.kaggle.com/c/sf-crime/data?train.csv.zip>

### Data fields

**Dates** - timestamp of the crime incident

**Category** - category of the crime incident (only in train.csv).

**Descript** - detailed description of the crime incident (only in train.csv)

**DayOfWeek** - the day of the week

**PdDistrict** - name of the Police Department District

**Resolution** - how the crime incident was resolved (only in train.csv)

**Address** - the approximate street address of the crime incident

**X** - Longitude

**Y** – Latitude

### Project Contributors

1. Prakash Wagle 800889950  
Analyst and Developer
2. Aditya Bhatkar 800887086  
Analyst and Developer