IBM Data Science Specialization Capstone Investigation Study: The Relationship Between Neighborhoods and Shooting Cases

Motivation:

USA has the highest crime numbers in the world and gun shooting cases are not exceptional.

Targeted audience:

I assumed that the targeted audience is New York Police (NYP), aiming to know what type of venues make a neighborhood more prone to gun shoot cases and what safe neighborhoods have in common.

Data for this project:

New York city publishes free public open-source data with different categories and update them frequently on their website (link). For this project, shooting incident data provided by NYPD (link), New York neighborhoods list names from New York GeoJson file are necessary. Other than those 2 files, Foursquare API is essential for getting neighborhoods details and clustering later.