**Project Proposal Template**

**Background**:

My friend Yasser is a movie writer that works at a film production company called Universal Pictures, he told me that he came up with a horror movie idea that fully takes place in the New York City subway, but in order to film a movie in the subway, the production company needs to know where and when are the best places and times that they can film a movie at that had the least amount of people. I told my friend that the subway transit traffic data is provided online by the MTA, and that me being a data scientist who also happens to like horror movies, I got excited and I offered that I could help them in finding the best stations and times that had the least amount of people, so that they could film a movie there. So, my friend Yasser told the production company about me, and they agreed for me to help them.

#### Question/need:

Framing question: What is the best time and location for having the least amount of people in the subway for filming a movie?

Who benefits: film production companies seeking to film in the subway. Example: Universal Pictures.

**Data Description:**

The dataset is provided by the New York [Metropolitan Transportation Authority](http://web.mta.info/developers/turnstile.html) and it contains information collected from the turnstile devices in the stations, some of this data include:

* Control Area, Unit, SCP: which all represent an individual turnstile.
* Station: represent the station name where the turnstile is located at.
* Entree, Exit values: which shows the number of entries, exits of the station cumulative.
* Date, Time: which represents the date and time of a snapshot of the turnstile info.

**Scope:**

* The data used will cover a three-month period where it is preferably not a summer break to avoid late outgoing tourists, residents.
* The dataset used will roughly have 700k rows, and it will have 12 columns.

**Tools:**

Technologies: SQL, sqlite3, Python, Jupiter notebook.

Libraries: Numpy, Pandas, Matplotlib, Seaborn.