



## T5 project proposal

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## Question/need:

- What is the framing question of your analysis, or the purpose of the model/system you plan to build?

**Ans:** The main purpose of the model is to optimize the placement of street teams in which that we predict the most crowded time and place.

- Who benefits from exploring this question or building this model/system?

**Ans:** The proposed model can have multiple benefits such as the company of the metro to manage the number of turnstiles needed during certain time.

- What dataset(s) do you plan to use, and how will you obtain the data?

**Ans:** MTA datasets, and since it's publicly available we can obtain it easily.

- What is an individual sample/unit of analysis in this project? What characteristics/features do you expect to work with?

**Ans:** The individual sample will be the last five collected months data from all the turnstiles. Our important characteristics of the turnstiles data are Time, number of uses, and location of stations.

- If modeling, what will you predict as your target?

**Ans:** The model will predict our target which is the number of uses during a given time and place.

- How do you intend to meet the tools requirement of the project?

**Ans:** The tools that will be used for the project are Python language, Pandas, Numpy, and Matplotlib libraries.

- Are you planning in advance to need or use additional tools beyond those required?

**Ans:** One of the additional tools that can be used is SQL language for its ability to manage multiple tables of data using relationship diagrams.