Duke Ellington said it best — "you must take the A train" to experience all the culture that the city has to offer

Question/Need:

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

  You're a musician/music-lover looking to open up a new jazz bar while New York is in recovery from the Covid-19 pandemic. Where are prime locations for a new jazz bar, which are near non-exposed metro stations (as to avoid train noise)?

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

  People looking to open up casual music venues

Data Description:

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

  I will be using the free MTA turnstile data
  I will also be googling which metro stations are non-exposed

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

  Location: distance from nearest metro station
  Noise (y/n): Is the metro station one where the trains are exposed and produce a lot of noise? Not great for music venue, if so

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

  No modeling

Tools:

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

  Will be using matplotlib bar graphs to compare metro stations' popularity from 5-11 pm (when jazz bars are open for people to stop by)

MVP Goal:

Examine two unexposed metro stations to see which one is more popular in night hours

Amelia,

I hope you have been well ever since we met at 55 Bar last week. I greatly enjoyed our conversation before the show (Mike Stern was brilliant, wasn't he?). I had never thought about using data science and analytics to pinpoint locations for my new music venue, so I am writing to let you know I am interested in seeing more of what you were talking about.

As you know, musicians, and especially music venues, have been struggling over the pandemic due to the national shutdowns. My plans to open up "Monk's Place" were put on hold, and I am frankly quite nervous to proceed with them.

I would like to see two major things that could help ease my anxiety about moving forward with my plans to open. First, I would like to see locations where Monk's Place can be farther away from other jazz bars, as to avoid competition, and close to subway station exits, though the trains must not be exposed as the noise would not be great for the shows. I would also like to see how popular different subway stations are, as if more people were to see the bar right as they exit, it may help boost our shows.

I am wondering if over the next two weeks you would work on pinpointing these subway stations, and showing me the comparison in human traffic. Afterwards, we may explore conversations about continuing our partnership.

Best,
Eric Lian