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Course Project Assignment

### NYC Taxi Data Science Project: Part 5

We plan to aggregate the trip trajectories from the taxi data to understand the demand for certain routes in NYC. After we aggregate these routes, we will analyze them against the existing subway routes to determine potential capacity increases NYC could do to reduce the number of individuals taking a taxi. Another analysis we would do is look at start points and determine areas with a high amount of outdegrees (start locations for trips) and determine trajectories that connect to that start point. Then, we would use a greedy algorithm which would follow a path based on trip trajectories along paths of high demand. This new path could be used for subway or public transportation planning. We also plan to use socioeconomic data in our analysis to prioritize routes in low income communities that are more likely to opt for public transportation.