Ads on the Run

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Introduction
In today’s world of digital advertisements, it has become imperative for business owners to understand their customers’ behavior and preferences to have a competitive edge in the market. The objective of this project is to assist business owners (clients) in understanding the runners in New York City and help them use that knowledge to curate targeted advertisements.

System Design

Results
From the meaningful clusters, we are able to answer: “Where to show an advertisement?” From our rich open source data we are able to answer: “What to show in an advertisement?” After building the algorithms, we created an API that would answer our clients’ requests based on the design flow in Figure 1.

Conclusions
The conclusion we drew from this project was that efficient and effective advertisement strategies can be built by companies using completely open source data. The solution lies in thinking about ways to combine data from different sources and creatively deriving inferences from the combined data.

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References
Data Sources: Strava Segments, NYC Demographic Data, LinkNYC Kiosk Status Data, OpenStreetMap, NYC Income Data