

# Applied Data Science Project Report

Title: Cloud Kitchen in City of New York



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## 1. A description of the problem and a discussion of the background

A client is interested in setting up cloud kitchen in the city of New York. A cloud kitchen is a restaurant that has no physical space and no dine-in or takeaway facility as it does not exist as a restaurant of any sort. It relies entirely on third-party integrations or home delivery orders placed on call through a website or an app. This format gives the restaurant the flexibility to more than one brand using the same kitchen infrastructure. The restaurateur (client) currently owns an Iranian restaurant. He would also like to serve Lebanese and Egyptian cuisine to his customers under a different brand name. A cloud kitchen will enable this business quite perfectly and the client is looking for a perfect location to start his cloud kitchen.

Here the client is the target audience. The data analysis will help the client make an informed decision on the location of his new cloud kitchen. The data analysis will try to locate an optimal location for three different cuisines at a single location to make food delivery.

## 2. A description of the data and how it will be used to solve the problem

- The data of New York city will be downloaded from [geo.nyu.edu](http://geo.nyu.edu) website.
- The data will then be divided into five boroughs which will be further divided into neighborhoods.
- Foursquare API will then be used to retrieve restaurant data of New York city.
- Using data analysis techniques that have been acquired over the last few months, three perfect locations to setup a cloud kitchen will be recommended to the client.