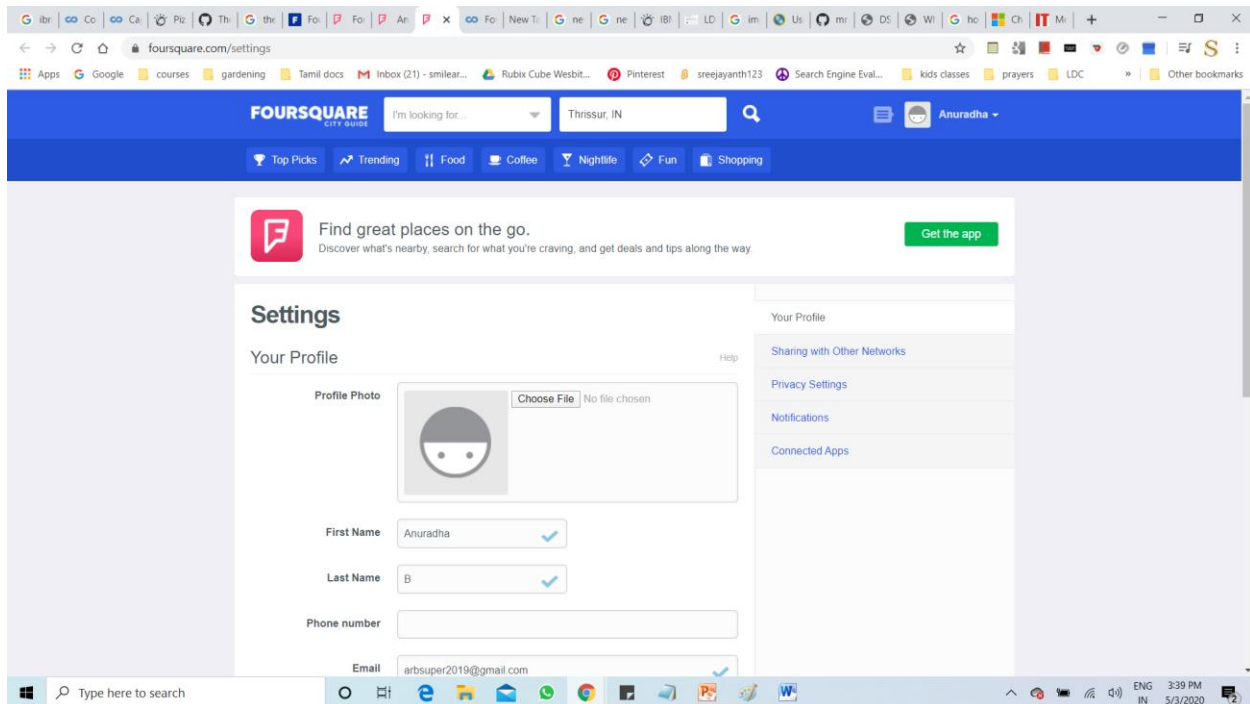


# The Battle of neighbourhoods- Week1

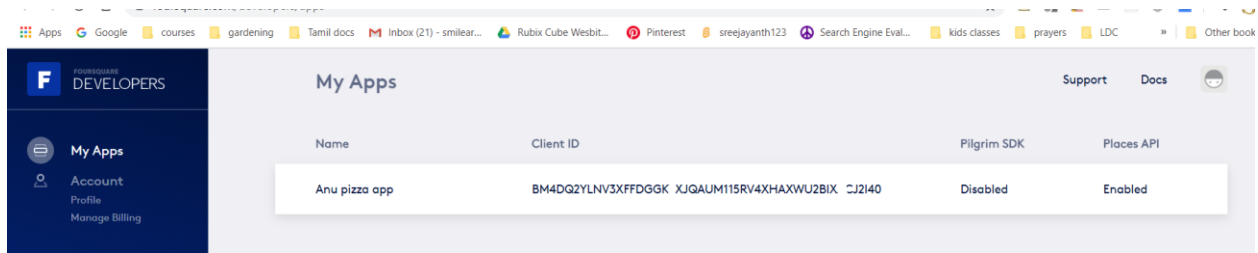
## Data Section

I will use the FourSquare API to collect data about locations of Pizza stores in 5 major US cities which are: New York,NY, San Francisco, CA, Jersey City, NJ, Boston, MA and Chicago,IL. These are one of the most populated US cities and I am hopeful that they will contain the best Pizza places in the US.



## Process-

Create a Foursquare login ID and get our own Client ID and Client Secret ID .



## Methodology

My main target here is to assess which city would have the highest Pizza store density. I used the Four Square API through the venues channel. I used the near query to get venues in the cities. Also, I use the CategoryID to set it to show only Pizza Places. An Example of my requests:

I am taking **Boston city** in my example-

[https://api.foursquare.com/v2/venues/search?client\\_id=BM4DQ2YLN3XFFDGGKTXJQAUM115RV4XHAXWU2BIXACJ2I40&client\\_secret=POAFJQCYLDFOJ1Q4I4JKG3WJ0TZ04F2IZ3YHP5SH1MIZOVRB&v=20200503&ll=37.78,122.42&query=pizza](https://api.foursquare.com/v2/venues/search?client_id=BM4DQ2YLN3XFFDGGKTXJQAUM115RV4XHAXWU2BIXACJ2I40&client_secret=POAFJQCYLDFOJ1Q4I4JKG3WJ0TZ04F2IZ3YHP5SH1MIZOVRB&v=20200503&ll=37.78,122.42&query=pizza)

or you can directly substitute the Pizza with the Category ID in the query

[https://api.foursquare.com/v2/venues/explore?&client\\_id=BM4DQ2YLN3XFFDGGKTXJQAUM115RV4XHAXWU2BIXACJ2I40&client\\_secret=POAFJQCYLDFOJ1Q4I4JKG3WJ0TZ04F2IZ3YHP5SH1MIZOVRB&v=20180605&New York, NY&limit=100&categoryId=4bf58dd8d48988d1ca941735](https://api.foursquare.com/v2/venues/explore?&client_id=BM4DQ2YLN3XFFDGGKTXJQAUM115RV4XHAXWU2BIXACJ2I40&client_secret=POAFJQCYLDFOJ1Q4I4JKG3WJ0TZ04F2IZ3YHP5SH1MIZOVRB&v=20180605&New York, NY&limit=100&categoryId=4bf58dd8d48988d1ca941735)

- 50 Premium Calls / Day
- 1 Photo per Venue
- 1 Tip per Venue

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Input Endpoint & Parameters

[https://api.foursquare.com/v2/venues/search?client\\_id=BM4DQZYLNV3XFFDGGI](https://api.foursquare.com/v2/venues/search?client_id=BM4DQZYLNV3XFFDGGI) View

To make your own API request, please append a **version date** and **authentication parameter** to your request URL.

Response

```
{
  "meta": {
    "code": 200,
    "requestId": "5ee8d136801fe081b5c35c7"
  },
  "notifications": [
    {
      "type": "notificationTray",
      "item": {
        "unreadCount": 0
      }
    }
  ],
  "response": {
    "venues": [
      {
        "id": "5923b8c8a4851b76c28ca08a",
        "name": "Champion Pizza",
        "contact": {

```

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```
{
  "postalCode": "11215",
  "cc": "US",
  "city": "Brooklyn",
  "state": "NY",
  "country": "United States",
  "formattedAddress": [
    "0": "686 5th Ave (btw 20th & 21st St)",
    "1": "Brooklyn, NY 11215",
    "2": "United States"
  ],
  "categories": [
    {
      "id": "4bf58dd8d48988d1ca941735",
      "name": "Pizza Place",
      "pluralName": "Pizza Places",
      "shortName": "Pizza",
      "icon": {
        "prefix": "https://ss3.4sqi.net/img/categories_v2/food/pizza_",
        "suffix": ".png"
      },
      "primary": true
    }
  ],
  "unreadCount": 0
}
```

That 4bf58dd8d48988d1ca941735 is the Id of the Pizza Place Category. Also, Foursquare limits us to maximum of 100 venues per query.

Moreover, I repeated this request for the 5 studied cities and got their top 100 venues. I saved the name and coordinate data only from the result and plotted them on the map for visual inspection

