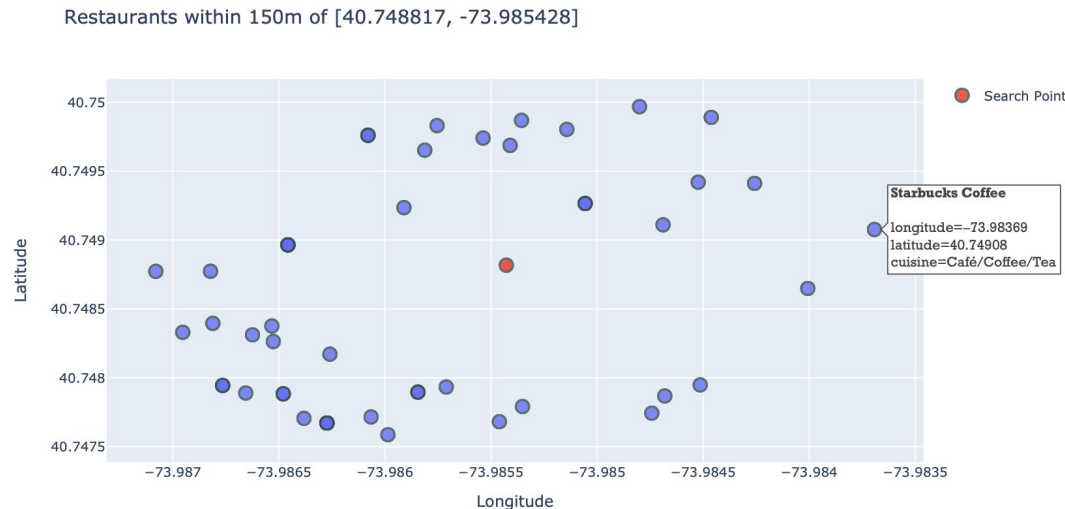# Proximity-Based Restaurant Discovery | Jai Gollapudi

Data: restaurants.json
Source: Professor Rachlin
Query:

```
db.restaurants.find({
    "address.coord": {
        "$near": {
            "$geometry": {
                "type": "Point",
                "coordinates": [-73.985428, 40.748817]
            },
            "$maxDistance": 150
        }
    }
}).limit(10)
```


Restaurants within 150m of [40.748817, -73.985428]

The visualization displays restaurants located within a 150-meter radius of a central point in NYC. Each blue dot marks the position of a restaurant, showing the density and proximity of dining options available to someone at the search point, marked by the red dot. This kind of visualization can be particularly useful for individuals seeking nearby options to eat or for businesses analyzing competitive locations. It also highlights the potential for food diversity and accessibility in densely populated areas.