

Coursera Capstone project

Coursera IBM Data Science Certification

Dinh-Dung Le

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1. Introduction/Business Problem

1.1 Introduction

- I used to live in Japan 3 years and really impressed by the convenience of the railway system.



- It is the scenes that plays out each weekday morning across Tokyo. Suit-clad office workers, gaggles of schoolchildren, and other travelers gamely wend their way through the city's sprawling rail stations.

1. Introduction/Business Problem

1.2 Problem to be resolved:

- Tokyo is home to the world's busiest train stations, with the capital's rail operators handling a combined 13 billion passenger trips annually.
- In this project, I will try to use Data Science techniques to **investigate about the prospects of restaurant at station in Tokyo, Japan.**

1.3 Interested Audience

- I believe the methodology, tools and strategy used in this project is relevant for a person or entity considering moving to Tokyo and want to find their country's food.
- Likewise, it can be helpful approach to explore the opening of a new business. The use of FourSquare data and mapping techniques combined with data analysis will help resolve the key questions arisen.
- Lastly, this project is a good practical case for a person developing Data Science skills.

2. Data using in this project

2.1 Data Requirements:

- Geodata for railway stations in central Tokyo with venues established using Foursquare.
- List of metro train stations is at:
https://en.wikipedia.org/wiki/List_of_Tokyo_Metro_stations

2.2 Data Sources, Data Processing and Tools used

- Tokyo data and map is to be created with use of Nominatim , Foursquare and Folium mapping.
- List of railway stations and Wards in Tokyo is collected using BeautifulSoup.

