IBM DATA SCIENCE CAPSTONE

WEEK 4

INTRODUCTION

This is a capstone project for IBM Data Science Professional Certificate. My friend has got admission into Harvard University .So, In this project, I am going to help him find a good neighbourhood in Boston for him to live. and I am designing this project to help him find the most suitable location.

BUSINESS PROBLEM

Many People Like my friend who have gone to Boston recently want to find a good Neighbourhood in Boston Which has got different types of venues. The objective of this capstone project Is to find the most suitable location for my friend in Boston. By using data science methods and tools along with machine learning algorithms such as clustering, this project aims to provide solutions to answer the question: Finding the Neighbourhoods which has got good restaurants, near to his University.

TARGET AUDIENCE

People who want to Find Neighbourhoods to live in Boston.

DATA

To solve this problem, we will need below data:

● List of neighbourhoods in Boston, USA

● Latitude and Longitude of these neighbourhoods

● Venue data of These Neighbourhoods.

EXTRACTING THE DATA

● Scrapping of Boston neighbourhoods via Wikipedia

● Getting Latitude and Longitude data of these neighbourhoods via Geocoder package

●Using Foursquare API to get venue data related to these neighbourhoods