

IBM Data Science Professional Certificate

Capstone Project

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Introduction

As part of the IBM Data Science Professional Certificate program in Coursera, we are to complete the program with the Capstone project. The Capstone project aims to use data science knowledge and toolset and location data on the city of Toronto to solve a real-life problem. Problem will be discuss in the next section, Business Problem.

Toronto, one of the major Canadian cities, is the capital city of the Canadian province of Ontario. Located on the northwestern shore of Lake Ontario. The city is home to the Toronto Stock Exchange, the headquarters of Canada's five largest banks, and the headquarters of many large Canadian and multinational corporations. There are a lot of job opportunities, especially in IT, in the Banking and Finance field.

The goal of this project is to explore Toronto neighborhoods and find neighborhood that is suit to an IT Professional with his family who would like to buy a house close to school for kids and close to transportation to the Banking and Finance companies offices.

Business Problem

Housing is one of the biggest problem in big cities for many of the Professional working in this City. The challenges faced are to find houses that are affordable, close to schools, transportations and other venues. The goal of this project is to explore Toronto neighborhoods and location data to find places that offer affordable housing, close to schools, transportations and other venues.

After more than ten years as an IT Professional in Montreal, I decided, with my wife and four years old son, to move to Toronto and work as an Data Science Consultant on the Banking and Finance field. I want to buy a house and I decide to live in a neighborhood closed to schools for my son and which will allow me to easily commute to the banking and finance firms and startup companies.

The objective of this project is to explore the neighborhoods of Toronto city in order to find neighborhood that is better suited for my requirements (close to schools, close to transportation, price of the houses on the neighborhood).