# School performance vs. local population characteristics for elementary and secondary schools in Ontario

## Objective:

A good school tends to drive up real estate prices. Thirty nine per cent of Canadians cite schools or school districts as an important factor for a future home purchase according to a recent survey.

Purpose of the project is to analyze school performance in relation to the school location, board and demographics (income, education, ethnicity, etc.) of the community that the school is located in. The idea is to see if the population characteristics can be used as a predictor of school performance.

Some questions that I will be looking to answer:

* Do high income neighborhoods have better schools?
* If a larger proportion of population/parents is highly educated, does it translate into a better performing school for that neighborhood?
* Are there any other characteristics of the population that can be linked with school performance?

## Data:

* **Schools:**

Data on all publicly funded schools in Ontario, including school board, school address, provincial test results (EQAO scores), student population demographics and class sizes.

* **Population Demographics:**

2016 Census data by Dissemination Area. Data for education, income, ethnicity, age, etc. This data will be mapped with the school’s data using the DA nearest to the school location.

## Expected outcome/s:

* Exploratory analysis using Tableau
* Machine learning model that predicts a school performance as a function of population/school characteristics.