# COMPARE TO TORONTO AREA (Inside area code) BY ECONOMICAL MAIN FACTORS (POPULATION, HOUSE HOLD, INCOME, EDUCATION STATUS, AGE, CHILD, HOUSING PRICE) FOR TRENDING HOUSING MARKET PRICE

*# The specific research question of this project,*

*# o To identify the best model relationship for Population, House hold,Income, Education status, housing price with Toronto Area.*

*# o To compare all factors with Toronto Area*

*# o To analysis the models and relationship*

*# o To given best model for Trending Housing Price*

*# This project working for objectives specified as given and title above through the data collection and analysis the different model and will show results of multiple data sources and it will recommendations/suggestions for decision making*

*# ➢ Jupyter Notebook will use for analysis the data*

*# ➢ One-year data will collect (2018, January to December) and will predict the coming model*

*# ➢ Will calculate Correlation model to support the result*

*# ➢ Will show the different graph analysis using data to take decision*

*# ➢ Give the results to analysis the data*

*# Data Collection - Collected different datas from different sources*

*# Cleaning and Preparation - Make one excel file and input all datas*

**import** **pandas** **as** **pd**

**import** **numpy** **as** **np**

**import** **matplotlib** **as** **plt**

%**matplotlib** inline

df = pd.read\_csv("Project-Toronto2018.csv")

df.head(5)

*# Main Heading and Factores:*

*# Name*

*# Forward Sortation Area ID*

*# Number of Basics | Total Population, 2018*

*# Number of Basics | Total Households, 2018*

*# Households by Income (Current Year) | Median Household Income (Current Year $), 2018*

*# % of Household Population 25 to 64 Years by Educational Attainment | Household Population 25 To 64 Years | No Certificate, Diploma Or Degree, 2018*

*# % of Household Population 25 to 64 Years by Educational Attainment | Household Population 25 To 64 Years | University Certificate, Diploma Or Degree At Bachelor Level Or Above, 2018*

*# Number of Household Population by 5-Year Mobility | Household Population For 5 Year Mobility Status, 2018*

*# Number of Population 15 Years or Over by Marital Status | Total Population 15 Years Or Over, 2018*

*# Number of Male Population by Age | Males, 2018*

*# Households by Income (Constant Year) | Average Household Income (Constant Year 2005 $), 2018*

*# Number of Household Population by Total Immigrants and Place of Birth | Total Household Population, 2018*

*# Number of Total Population by Age | Total Childern Population | Total 0 To 4, 2018*

*# Detached Housing Prices| Median ($),2018*

*# Condo Housing Prices| Median ($),2018*

*# Focuse on working:*

*# Analysis the all each factors with Area ID (Using charts)*

*# Compare all results with Area ID*

*# Given best model factor to Trending Housing Price*