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**CIND820 – Abstract Summary**

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# **An abstract is a summary of your project**.

My project will be about the Demographics with emphasis in population decline. I want to create a model to predict the population in a couple of years based on the trends year by year.

I would also figure out which variables count more for the population positive and negative growth. Which of those variables such as fertility, mortality, common diseases, extension of territory, coastal geography, politic organization, countries economics, classification between developed or developing country, are these variables correlated to either trend?

I would also like to figure out the population in those countries that have seen decline, which policy has been more successful in incentivising a healthy population replacement. Such Immigration or parental leave of absence.

## Techniques:

### **Regression Model**: Most probably for creating a model to predict future population based on the different independent variables.

### **Classification model**: Create different categories for the most affected countries or less affected countries with a different incidence of minus population growth.

### **Data visualization**: Probably we will use the pyramid chart to show low or aging population in those case of study which the data is easy to get such as the United States, Canada. Also, the highlights of categories in which we could classify the population shrinking based on different factors.

# Data Utilized:

## National statistics agency

### [Canada Census 2016](https://www12.statcan.gc.ca/census-recensement/2016/dp-pd/dt-td/Rp-eng.cfm?TABID=4&LANG=E&A=R&APATH=3&DETAIL=0&DIM=0&FL=A&FREE=0&GC=01&GL=-1&GID=1235625&GK=1&GRP=1&O=D&PID=113434&PRID=10&PTYPE=109445&S=0&SHOWALL=0&SUB=0&Temporal=2016&THEME=117&VID=0&VNAMEE=&VNAMEF=&D1=0&D2=0&D3=0&D4=0&D5=0&D6=0)

### [United States Population projections](https://www.census.gov/data/datasets/2017/demo/popproj/2017-popproj.html)

### [Population Census of Japan](https://www.e-stat.go.jp/en/stat-search/files?page=1&layout=datalist&toukei=00200521&tstat=000001136464&cycle=0&year=20200&month=24101210&tclass1=000001136466)

### [Population Census of Korea](https://kosis.kr/statHtml/statHtml.do?orgId=101&tblId=DT_1IN1502&vw_cd=MT_ETITLE&list_id=A11_2015_1&scrId=&language=en&seqNo=&lang_mode=en&obj_var_id=&itm_id=&conn_path=MT_ETITLE&path=%252Feng%252FstatisticsList%252FstatisticsListIndex.do)

## World Bank Open Data

### [Canada](https://data.worldbank.org/country/canada?view=chart)

### [United States](https://databank.worldbank.org/reports.aspx?source=2&series=SP.POP.TOTL&country=USA)

### [Japan](https://databank.worldbank.org/reports.aspx?source=2&series=SP.POP.TOTL&country=USA)

### [Korea](https://databank.worldbank.org/reports.aspx?source=2&country=KOR)

## United Nations Statistics Division

### [United Nations Statistics Division](https://unstats.un.org/unsd/demographic-social/products/dyb/dyb_2020/)

## OECD Stats

### [Organization for economic cooperation and development](file:///C:\Users\Public\Documents\cind820_capstone\CIND820_capstone_project.docx)

# Link to GitHub repository with the word document already pushed

### <https://github.com/t-developerDataAnalysis/proyect_data_analysis>