



# Predicting Calgary Housing Prices



ENSF 612 Big Data Presentation  
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# Strategy

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- Identified features and what their impact is on our target variable
- Loaded individual datasets using API into pandas dataframe
- Inspected quality and extracted desired subset
- Explore EDA on individual Datasets

# Categorized Features and Mapped to Dataset

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## Economic Indicators

- Large-scale economic indicators that may affect the housing prices in an economy.

The employment rate, a city's wealth, its population and growth, etc

- Average Home Price
- Unemployment Rate
- Housing Starts
- Calgary Population
- Interprovincial Immigration
- Inflation Rate
- Assessed Year

## Group Price Indicators

- Factors that may influence a house price broadly based on other, location based factors. Ie neighborhood, density, crime rate, distance to downtown, desirability, etc

- Density by Community
- Community Name/Code
- Crime Count
- Resident Count
- New Development by Community

## Individual Price Indicators

- Individual factors that may influence a house price, ie land size, type of dwelling

- Property Type
- Land Use Designation
- Dwelling Type
- Land Size

# Challenges

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- Discrepancies between datasets, finding common data
- Limited overlapping years
- Combining Datasets (Working with 8 Datasets)

# Next Steps

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- Combine Datasets
- Perform EDA
- Build Model