Project Outline

Step 1: Data Acquisition

*Demographics Data* (<https://data.census.gov/table?q=demographic%20data%20for%20ohio&g=040XX00US39$8610000>)

**Extract Relevant Data**:

* + Focus on:
    - Total population.
    - Male and Female distribution.
    - Native and Foreign-born population.
* **Remove Unnecessary Data**:
  + Drop irrelevant rows and columns.
  + Handle missing or ambiguous values (e.g., replace \*\*\*\*\* with Unknown).

*housing price*

(it is downloaded and in data folder [name starts with Metro\_mlp\_uc\_sfrcondo\_sm\_month]

**Filter Ohio Data**:

* Extract rows where StateName == ‘OH’

**Data Merging steps**

* Using RegionName (zip codes) or StateName to merge this data with the demographics data .
* Analyzing time-series trends for housing prices in Ohio.

*Rental price*

<https://www.huduser.gov/portal/datasets/fmr.html#history>

uploaded the dataset in data folder [name starts with FMR\_All\_1983\_2025]

thinking of merging by county

Web scraping [ <https://www.apartments.com/rent-market-trends/oh/> ]