

A close-up photograph of various antique timepieces. In the center, a glass hourglass with a metal frame is prominent. To its left is a round, ornate clock face with Roman numerals. To the right, a cylindrical container, possibly a clock component, has a handwritten label that reads '14 VINTA SUITC', 'Antiques & Well', and 'Bass Clock'. The background is filled with other antique clock parts, creating a sense of history and time.

# TIME SERIES ANALYSIS

on Real Estate for Talanta LTD.

# Task:

To identify the top 5 zipcodes to invest in.



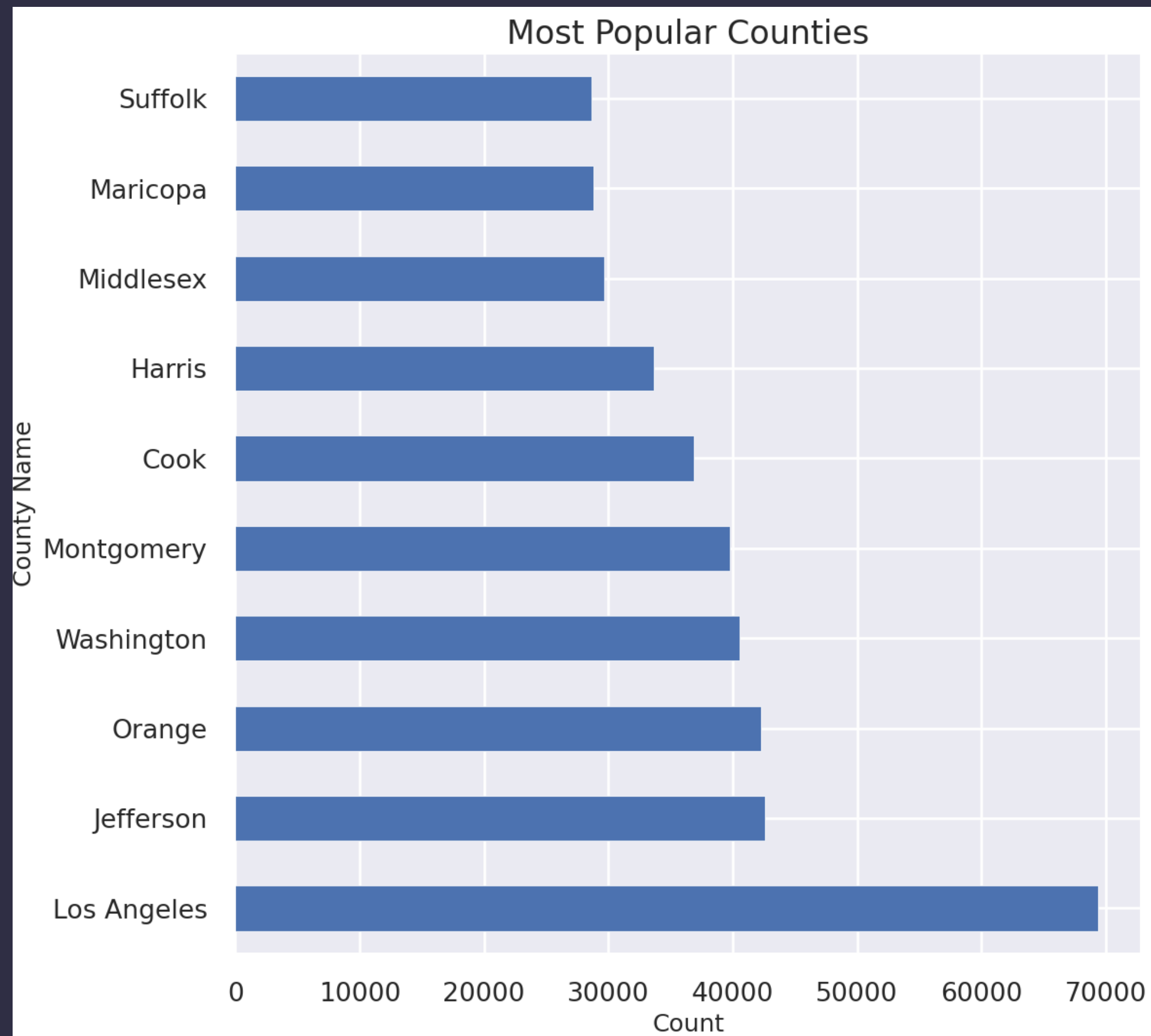


# Objectives:

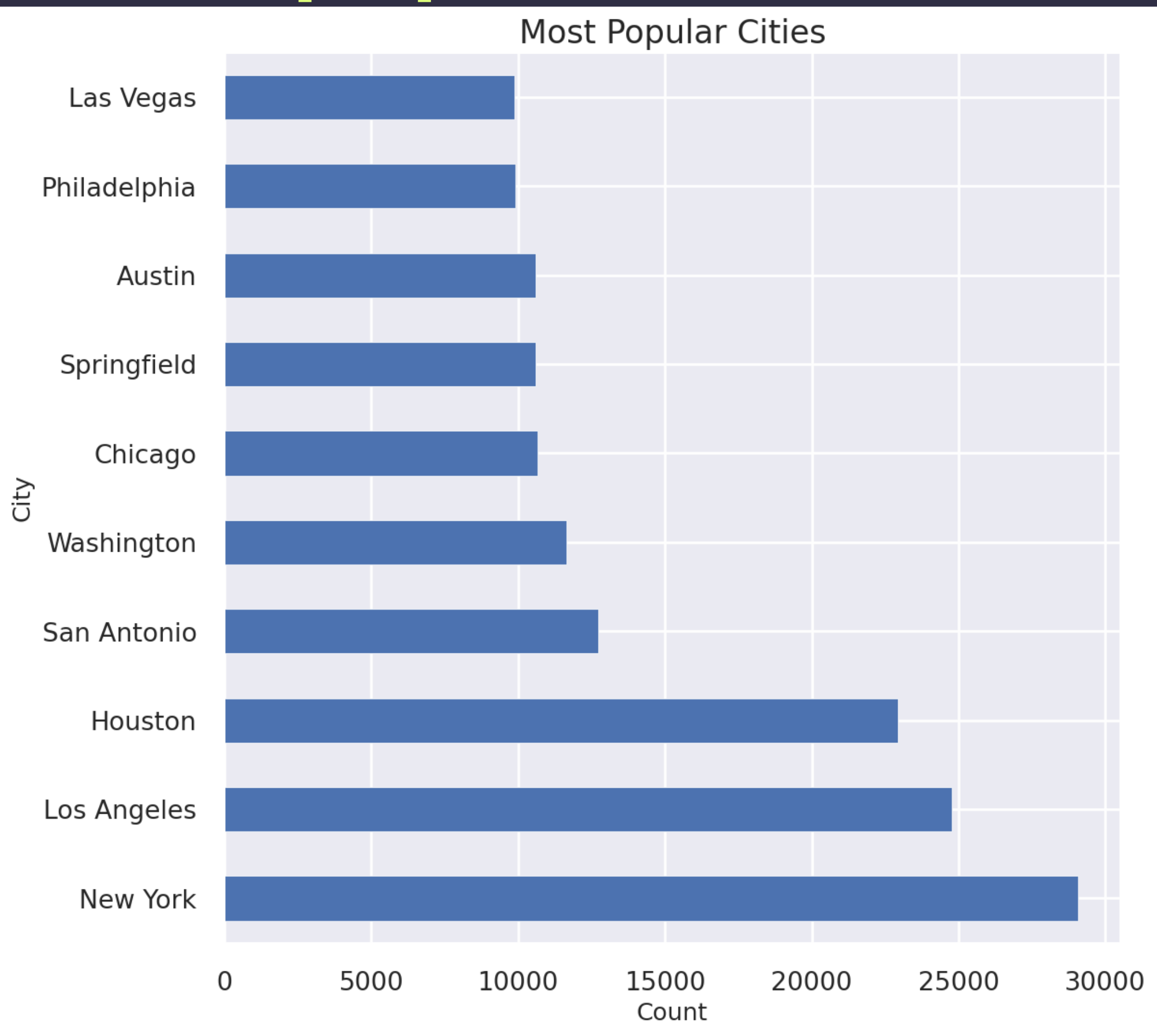


- 1 To conduct a time series analysis on Zillow Research data
- 2 To develop a time series model that would predict the top 5 zip codes to invest in
- 3 To come up with recommendations for the top 5 zip codes for Talanta Ltd

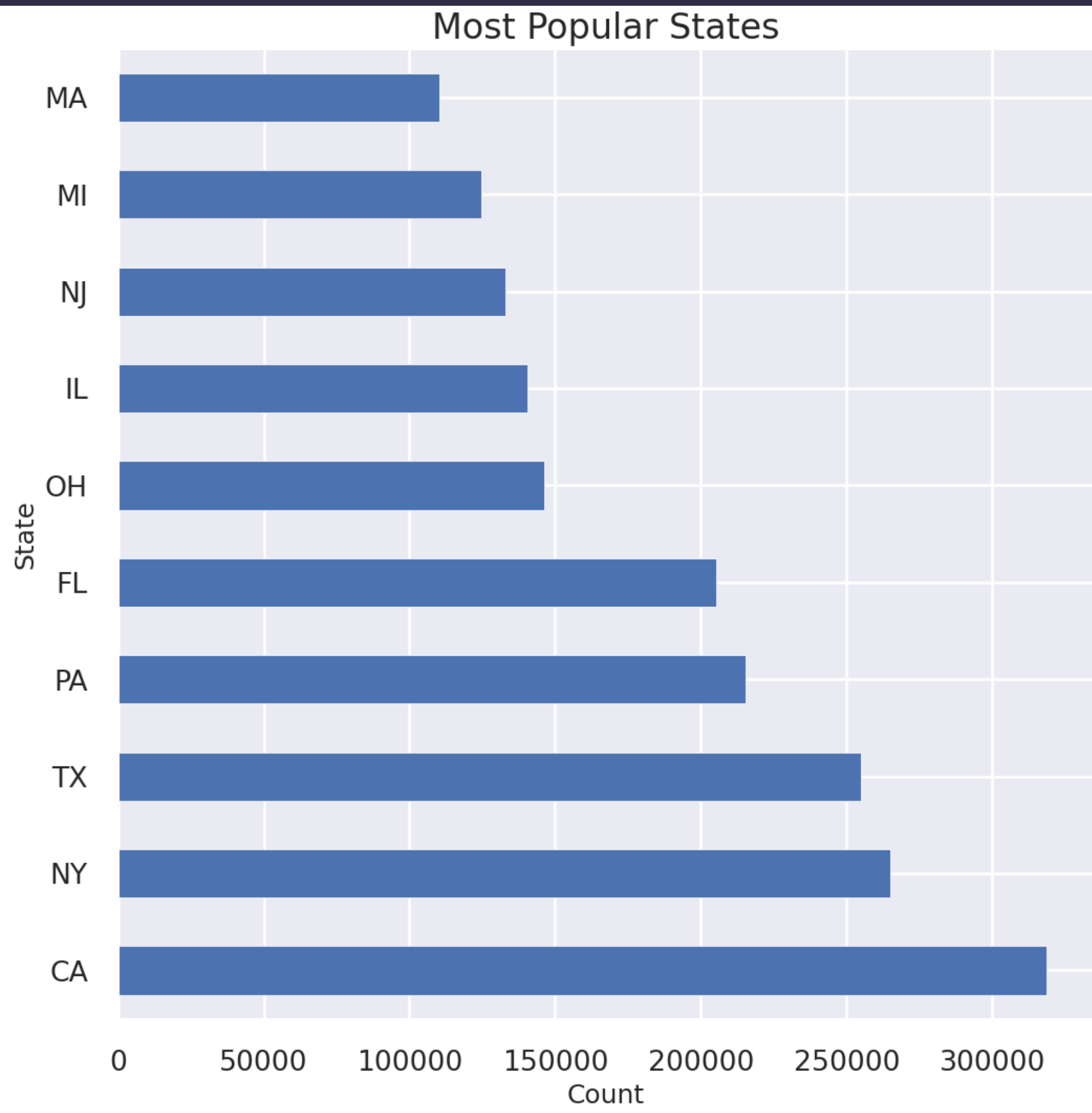
# Most Popular Counties



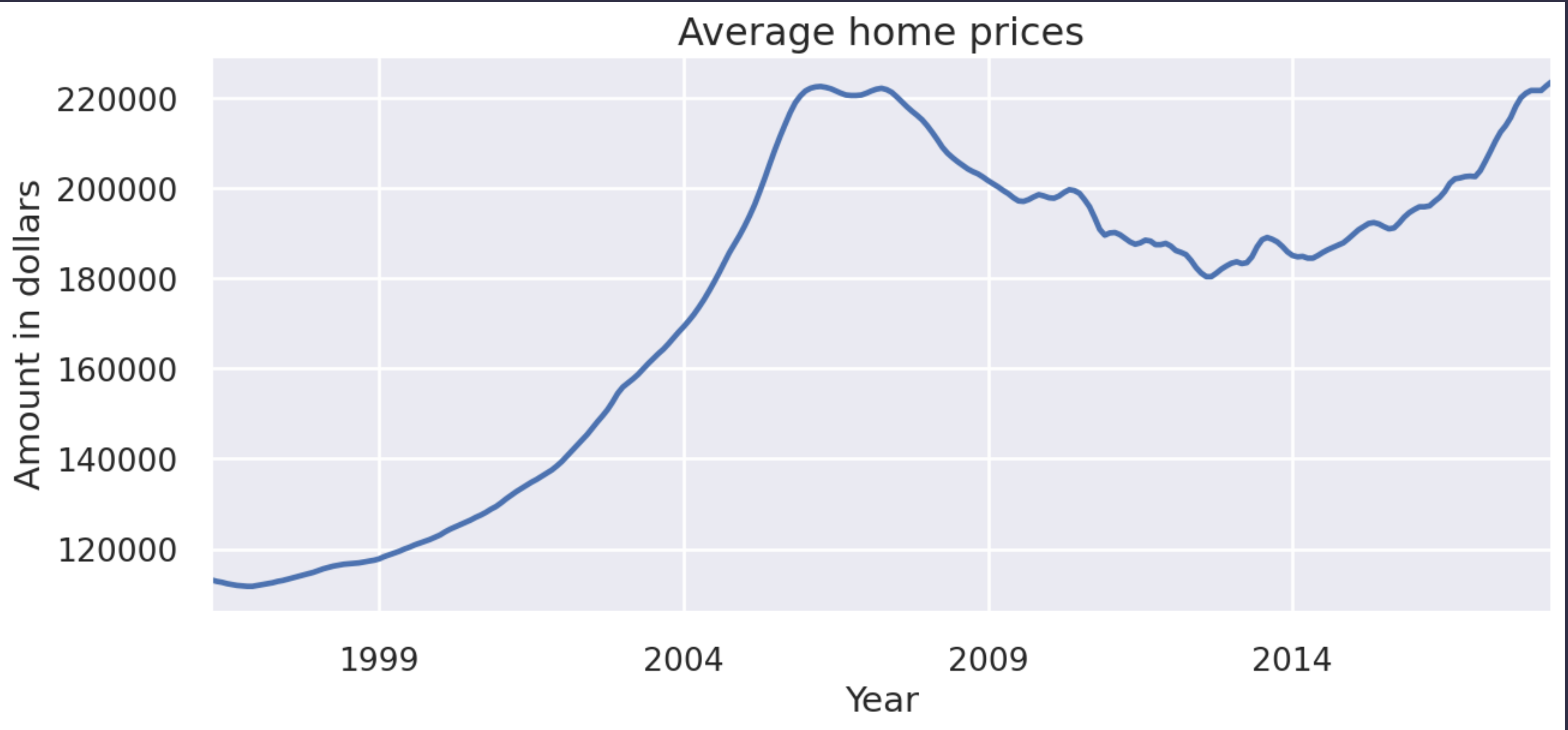
# Most popular cities



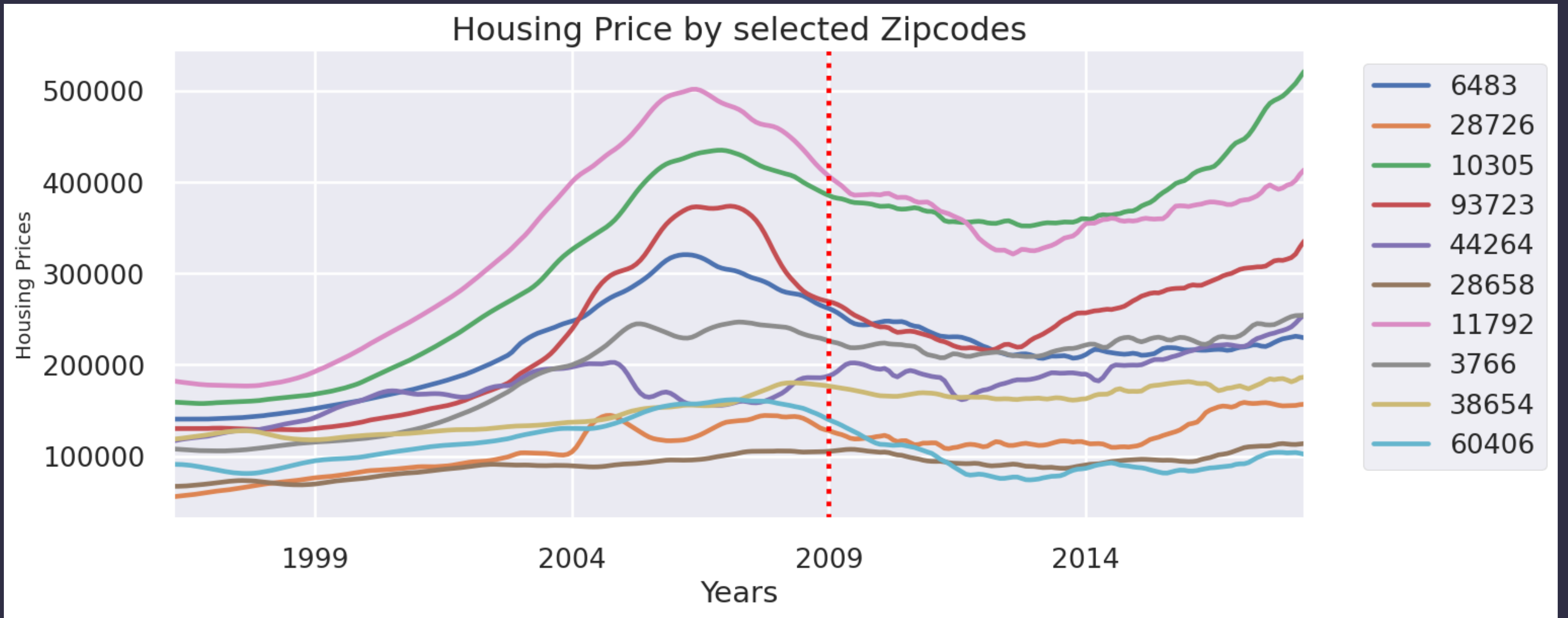
# Most popular States



# Line plot of Average Home prices



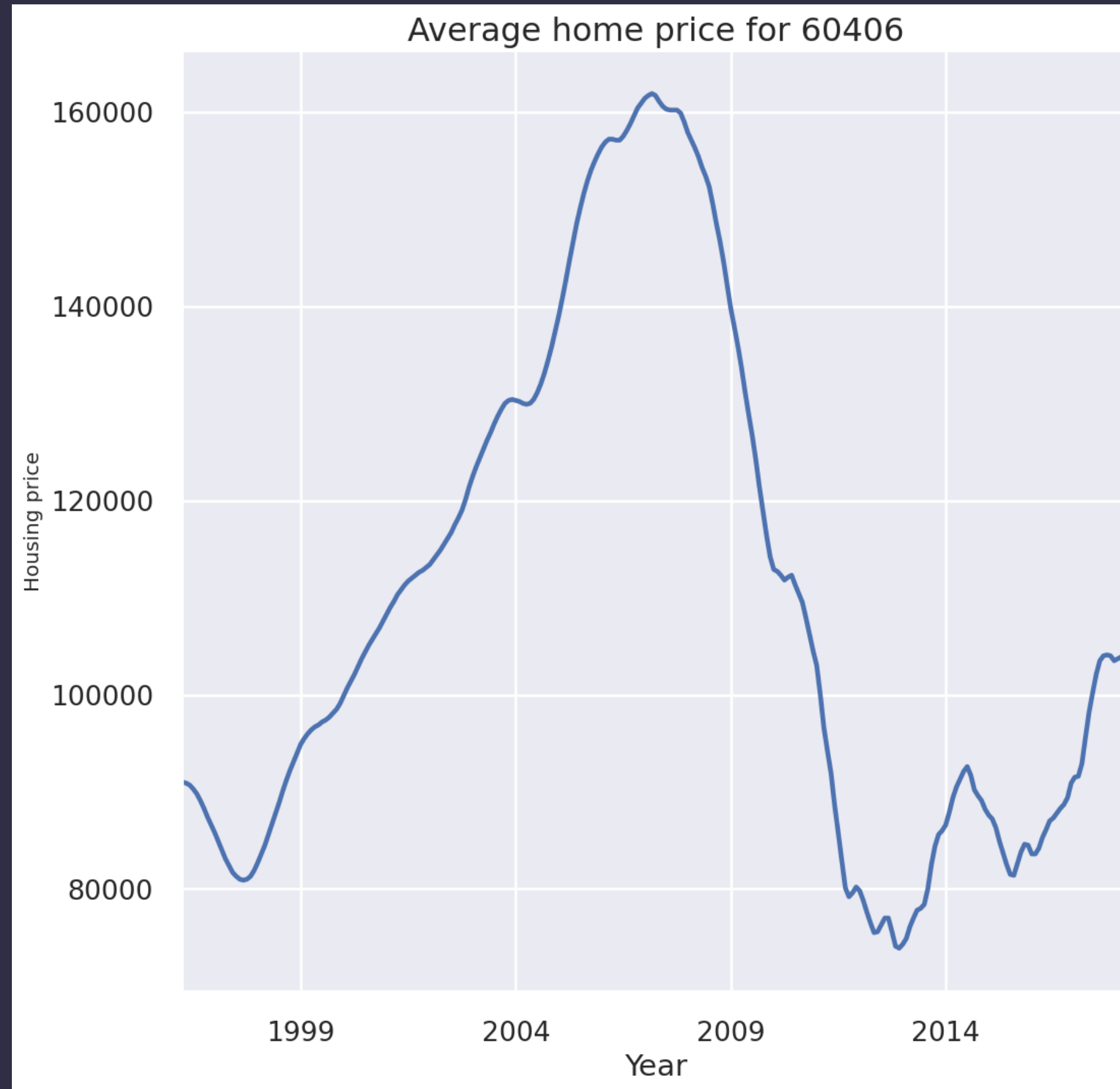
# Housing Prices by selected zipcodes



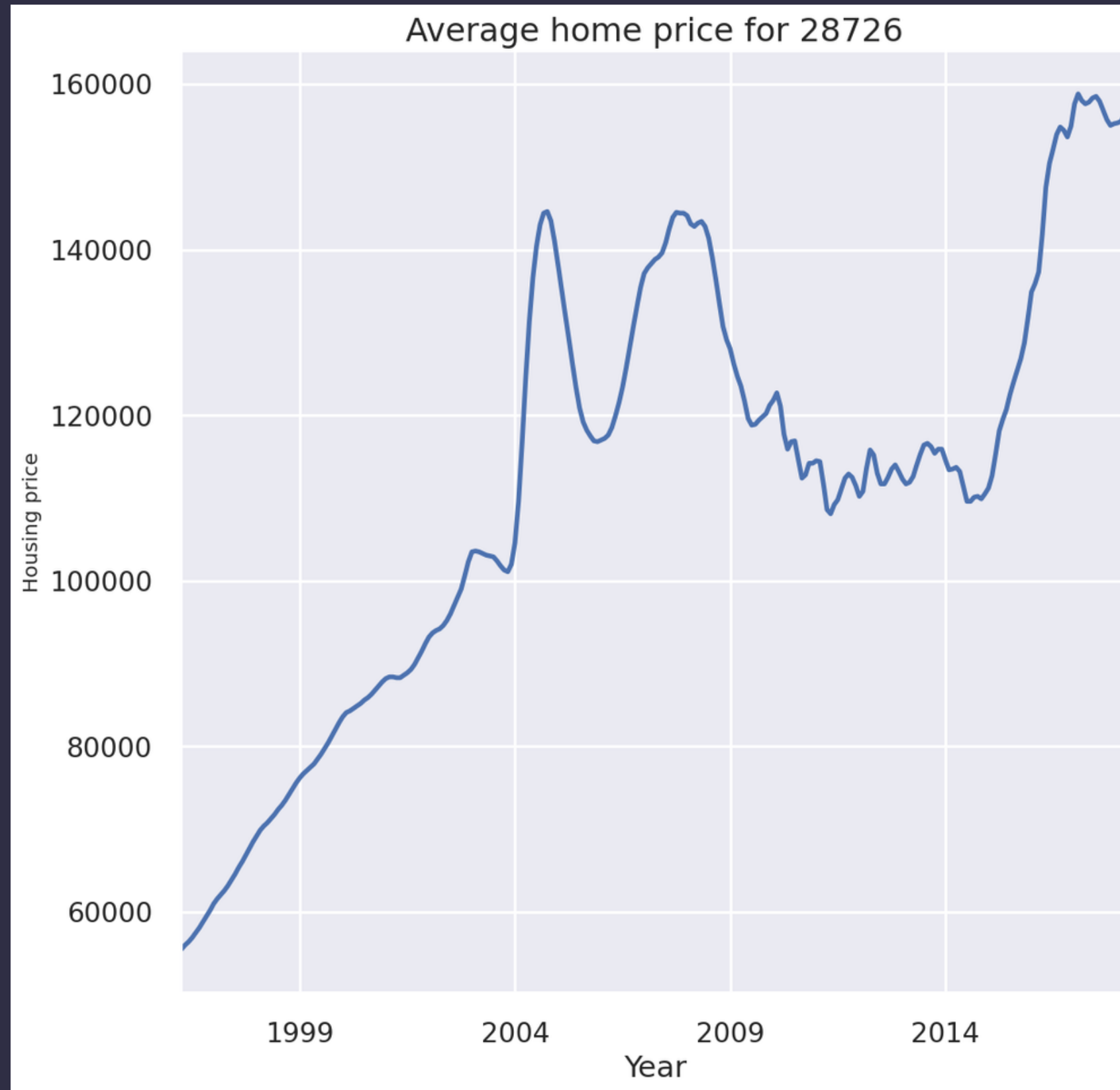


# Average House Prices for various zip codes

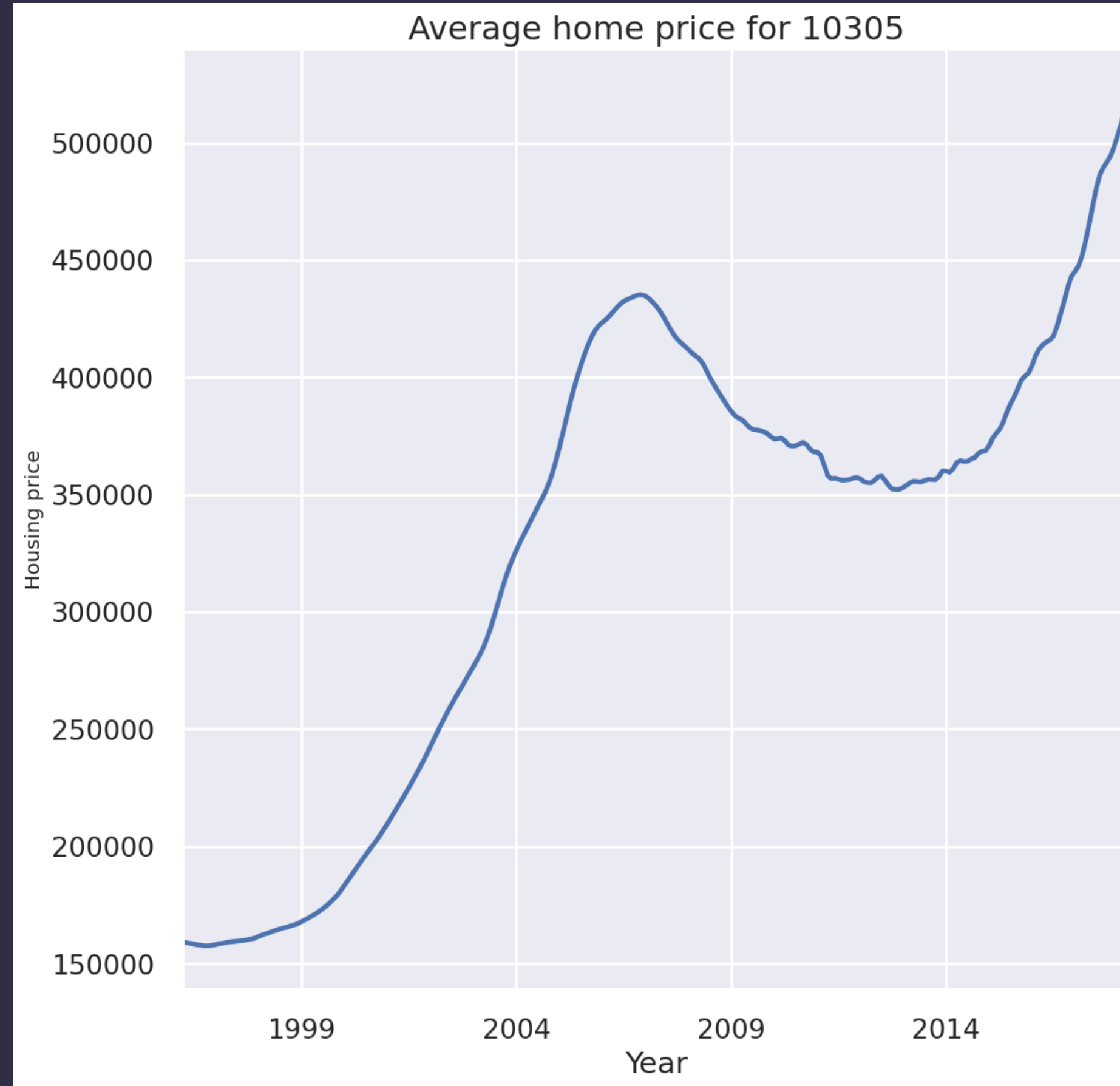
# zipcode 60406



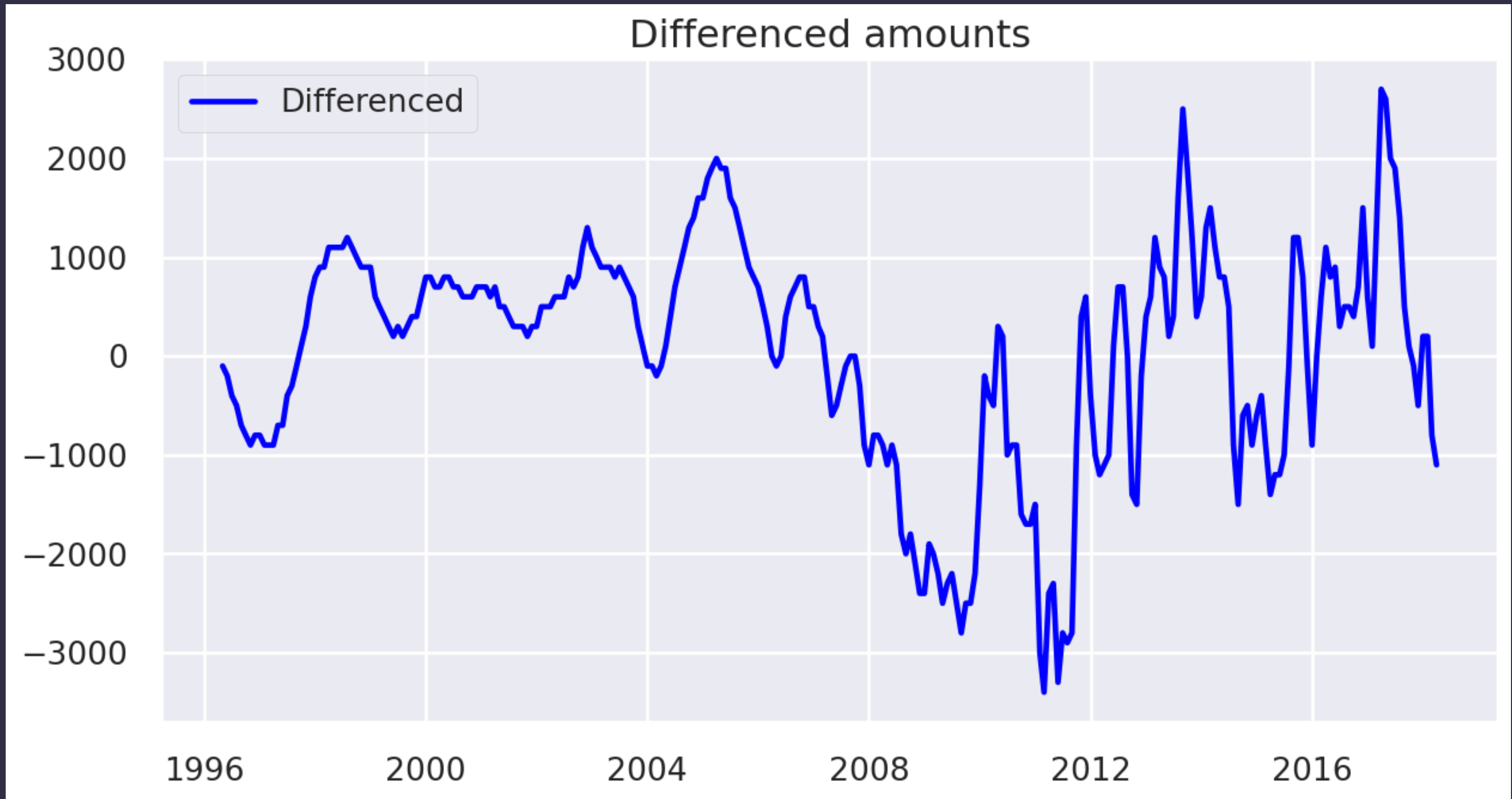
# zip code 28726



# zip code 10305

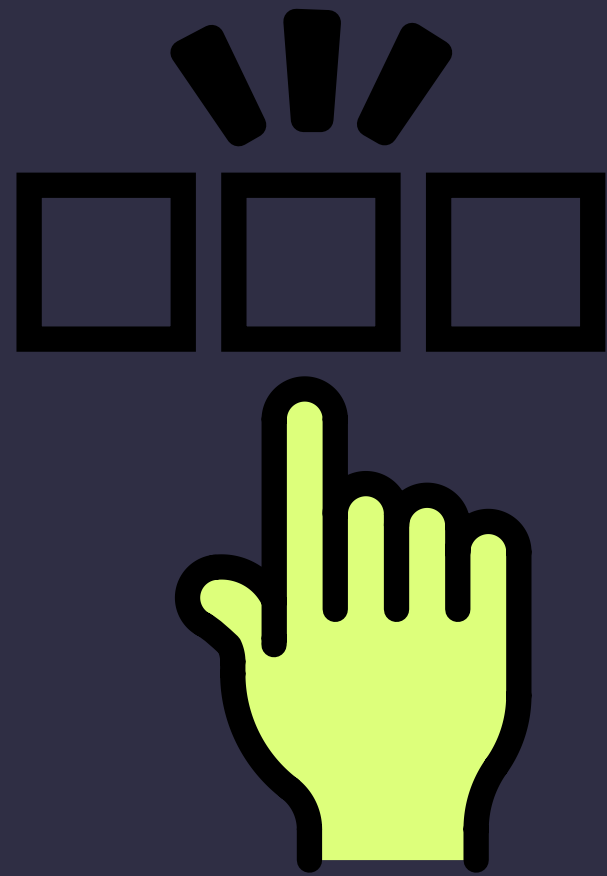


# Removing trend



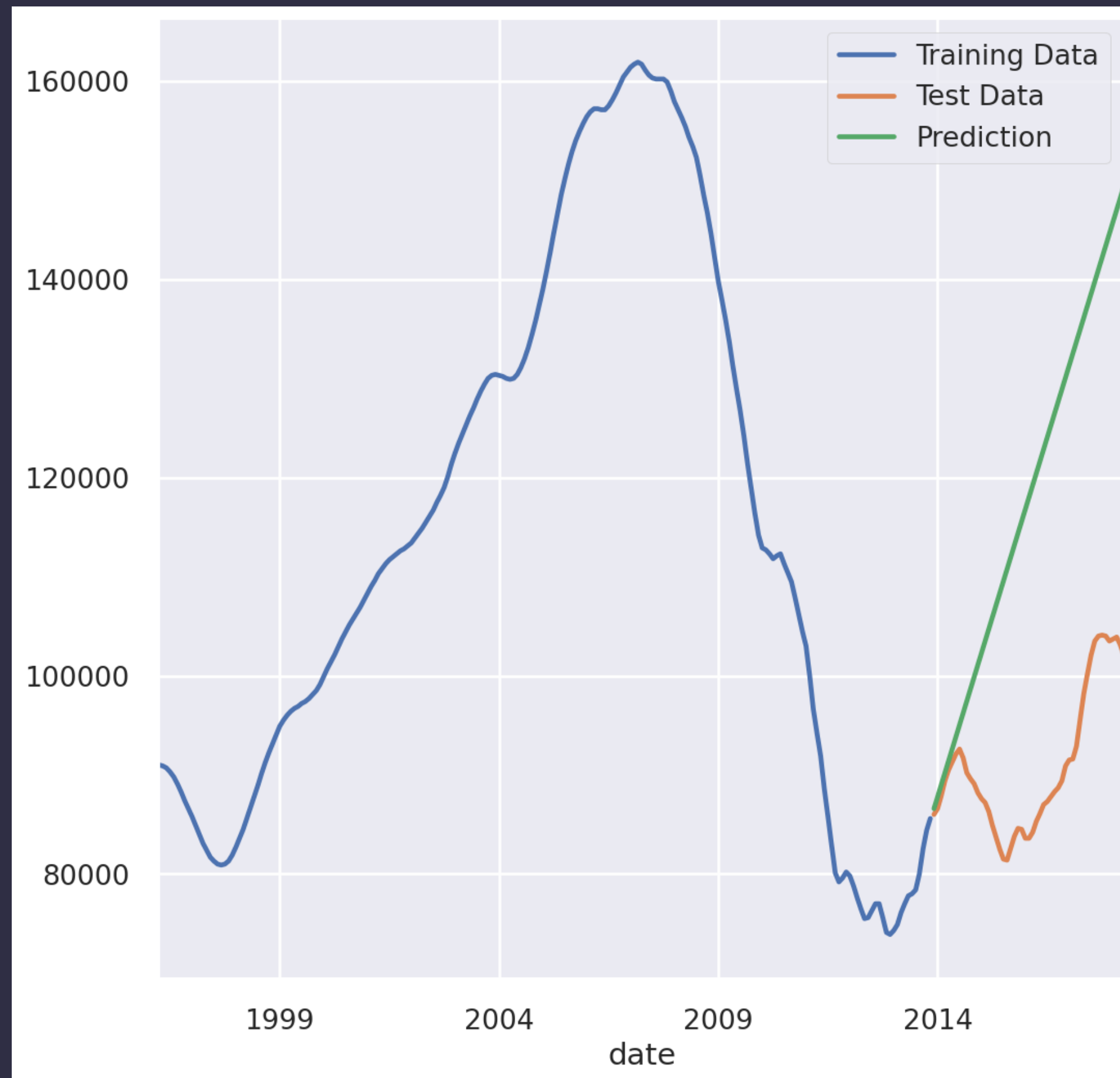


# Model Selection

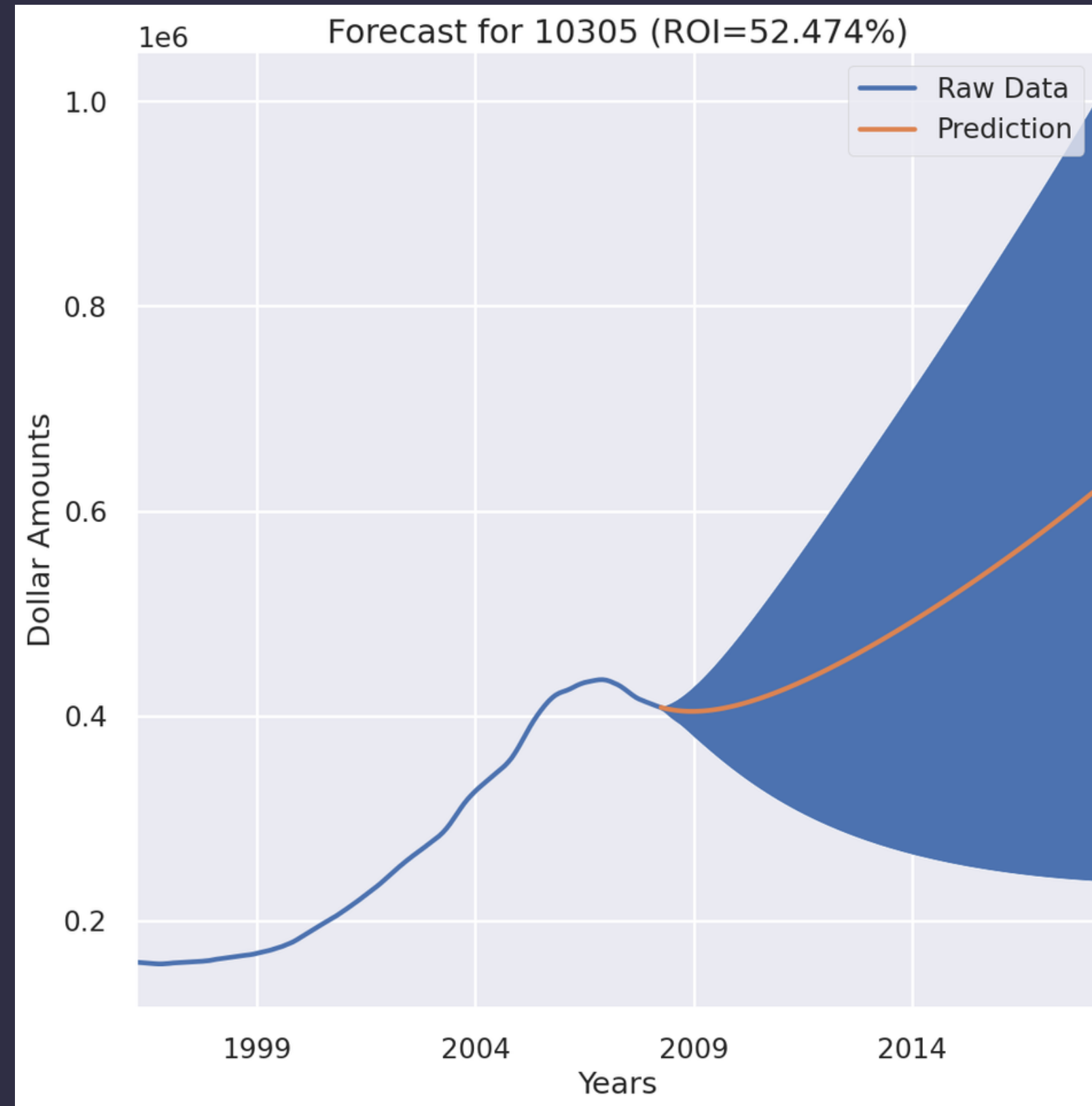


- ARIMA Model

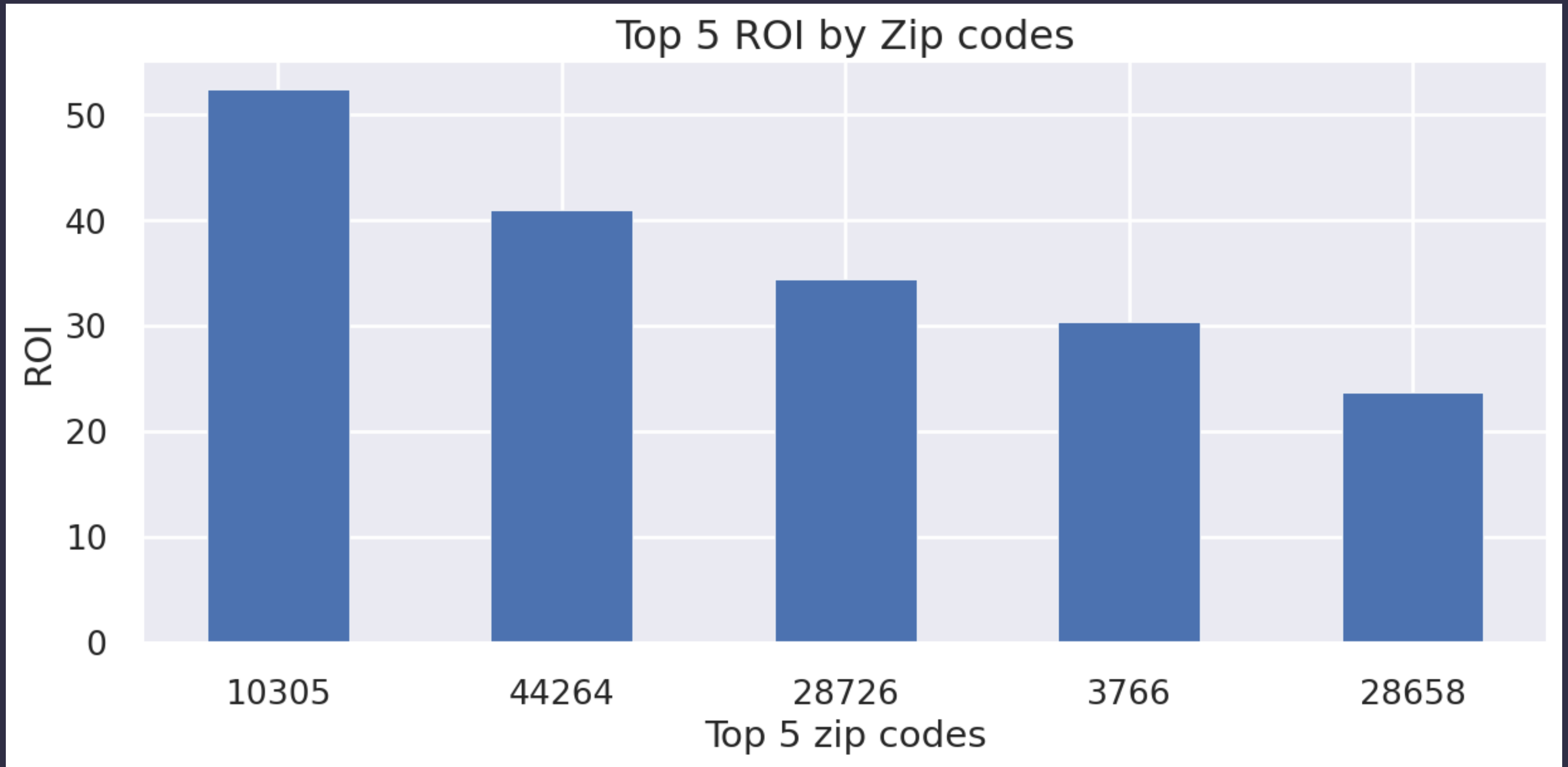
# Model Prediction



# One of the zip codes with a future potential



# Recommended Zipcodes



**Talanta LTD should invest in the following zip codes:**

- **10305**
- **44264**
- **28726**
- **3766**
- **28658**