

A close-up photograph of antique timepieces. In the center is a glass hourglass with a metal frame. To the left is a round, ornate clock with a white face and Roman numerals. To the right is a cylindrical container with a label that reads 'VINTA SUIT' and 'Antiques & Well'. The background is filled with other antique clocks, 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.

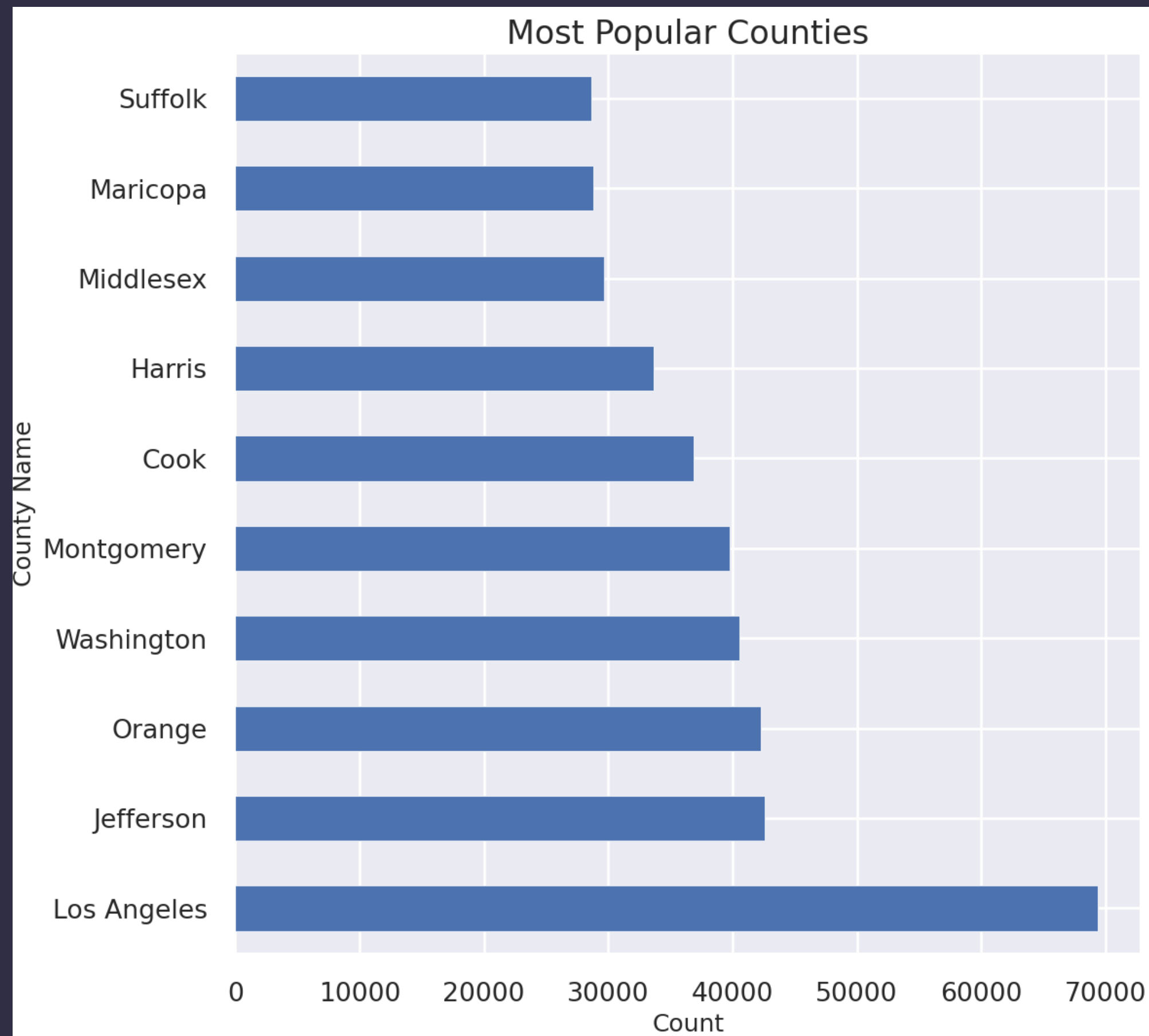


Objectives:

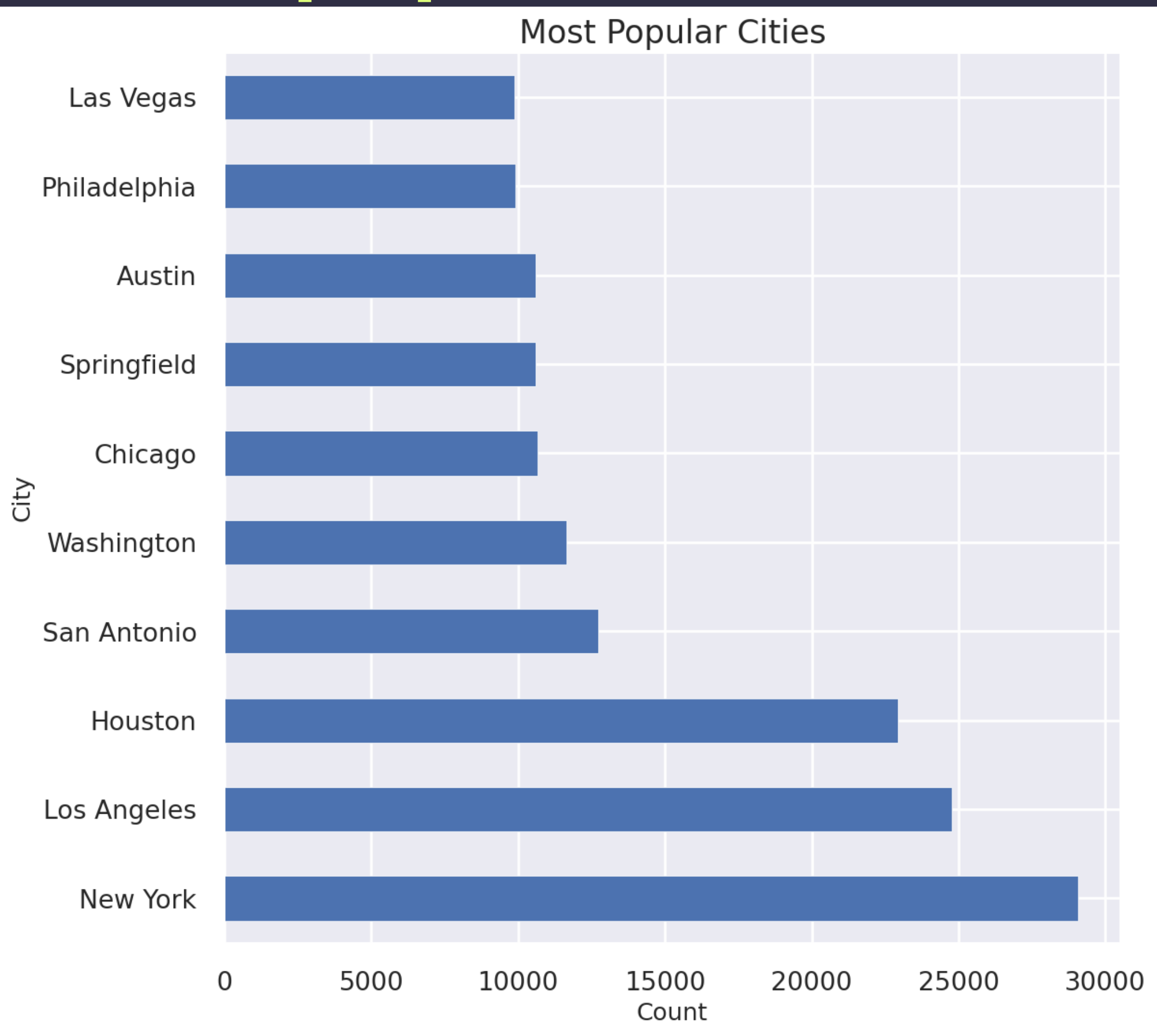


- 1 To conduct a time series analysis on Zillow Research data
- 2 To develop a time series model that would predict the top 5 zip codes to invest in
- 3 To come up with recommendations for the top 5 zip codes for Talanta Ltd

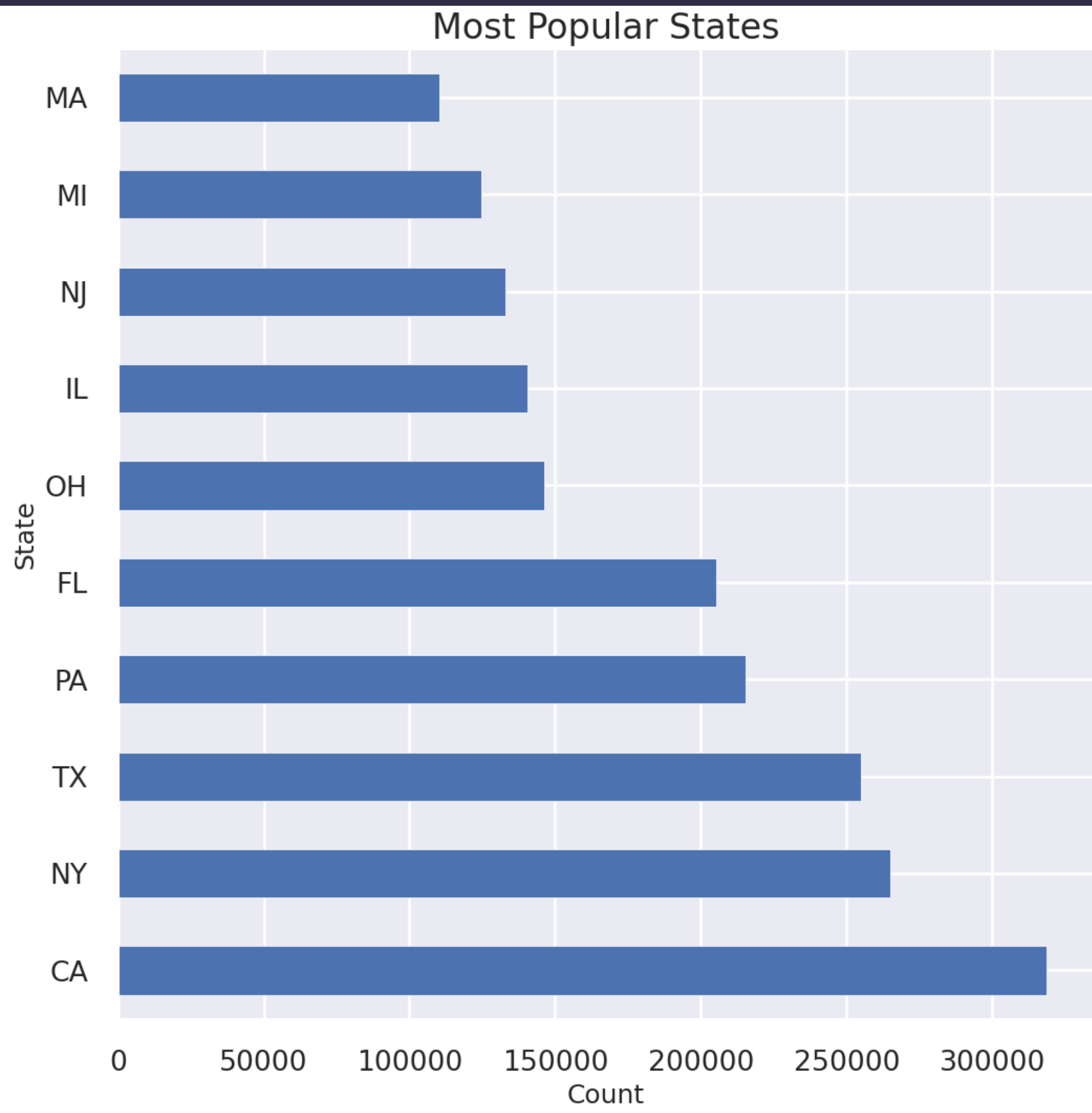
Most Popular Counties



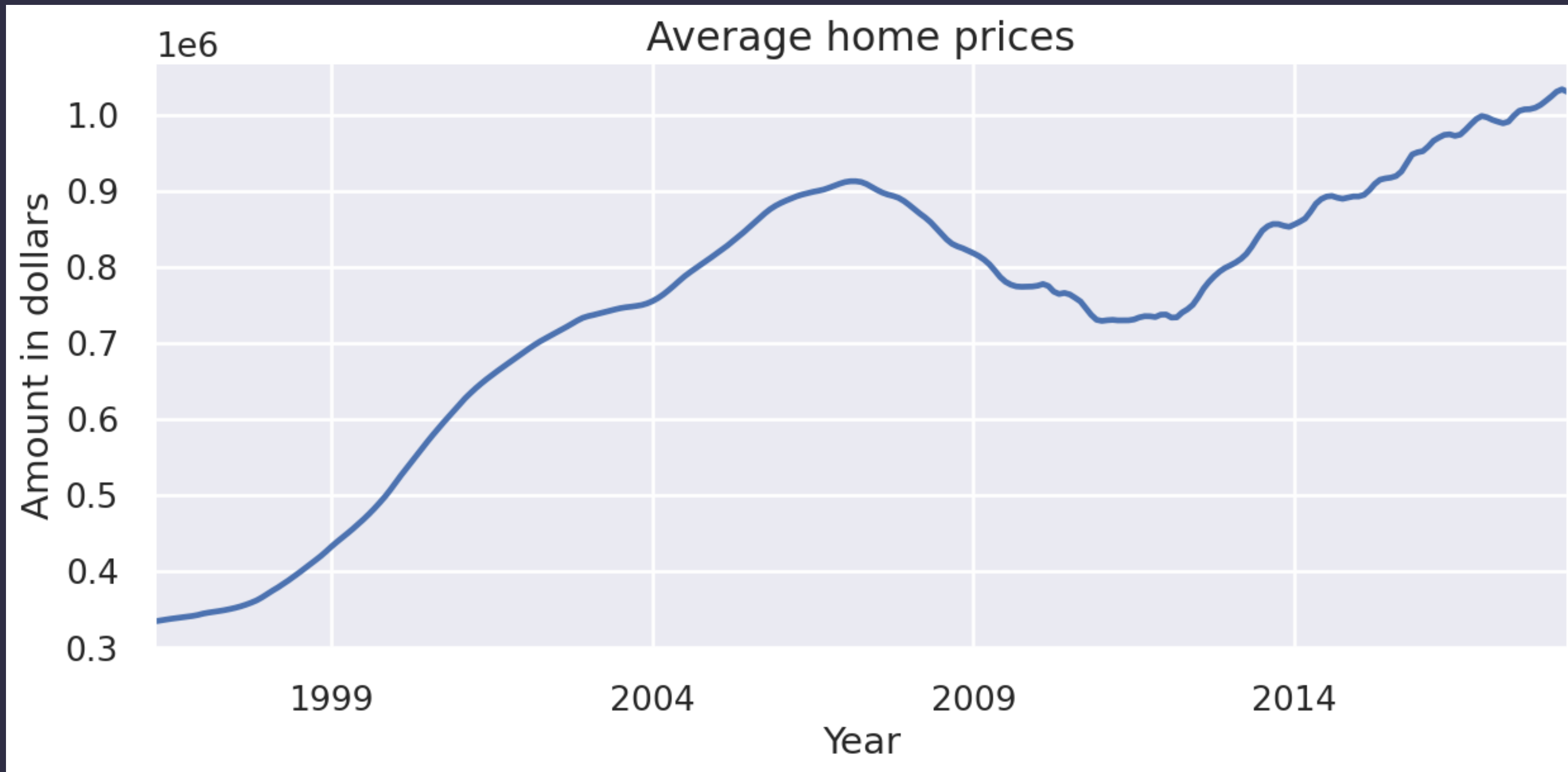
Most popular cities



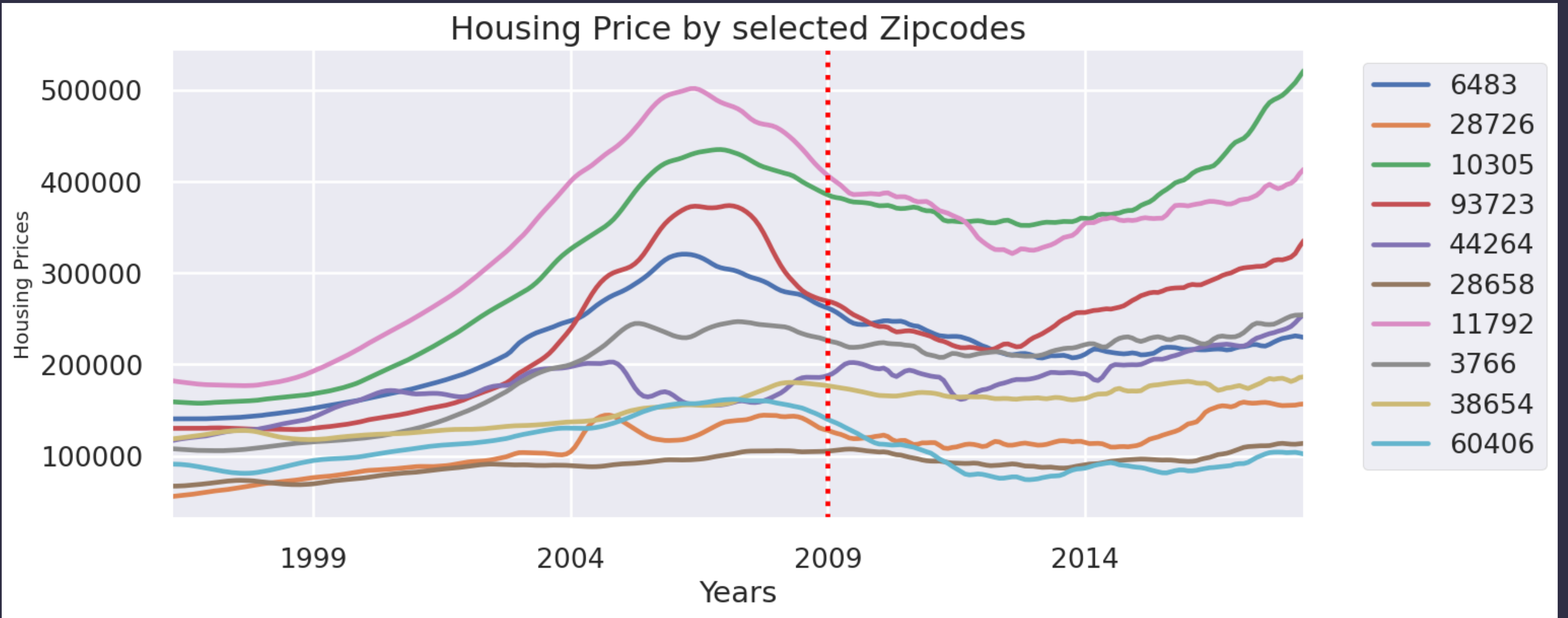
Most popular States



Line plot of Average Home prices

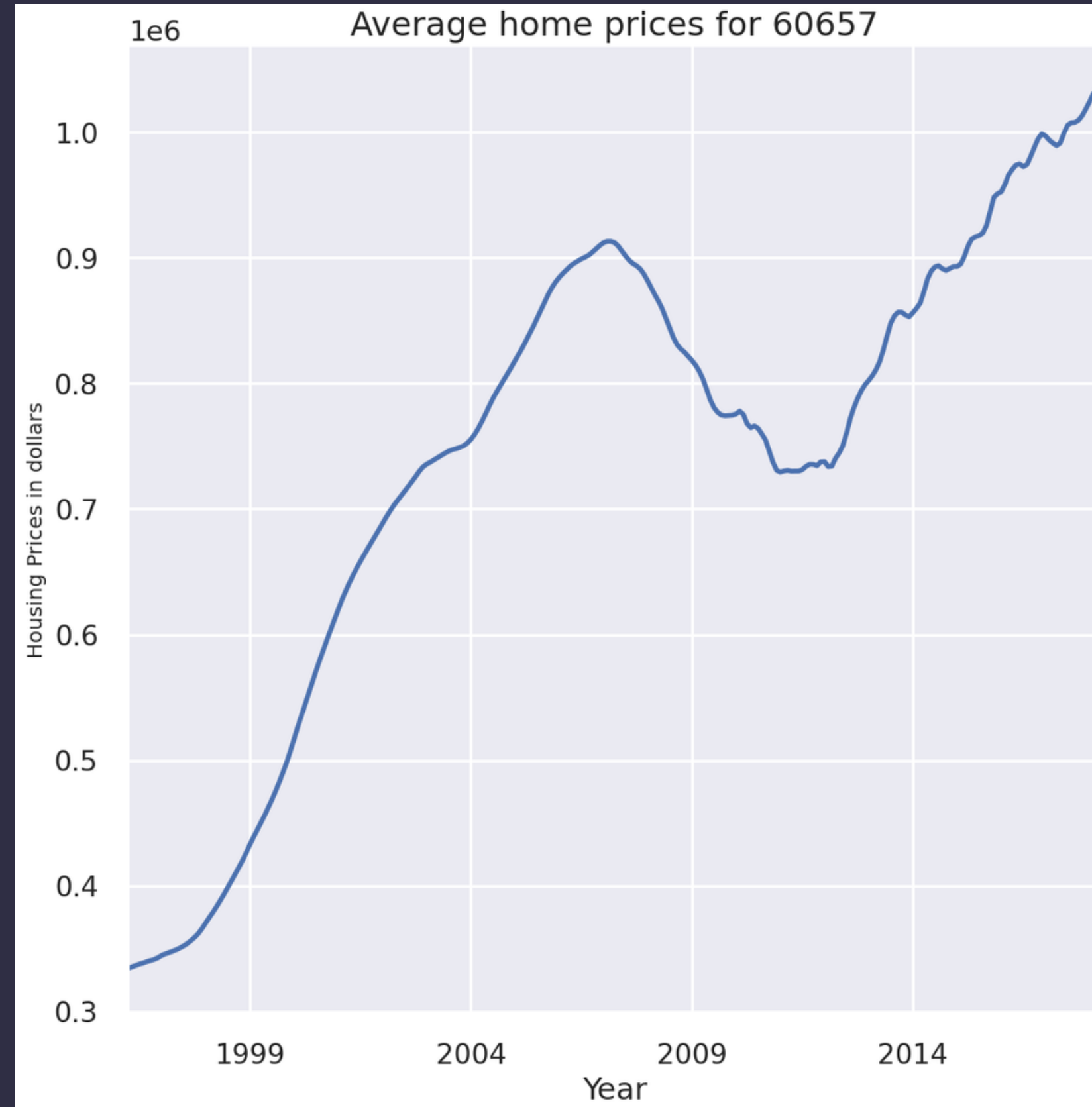


Housing Prices by selected zipcodes

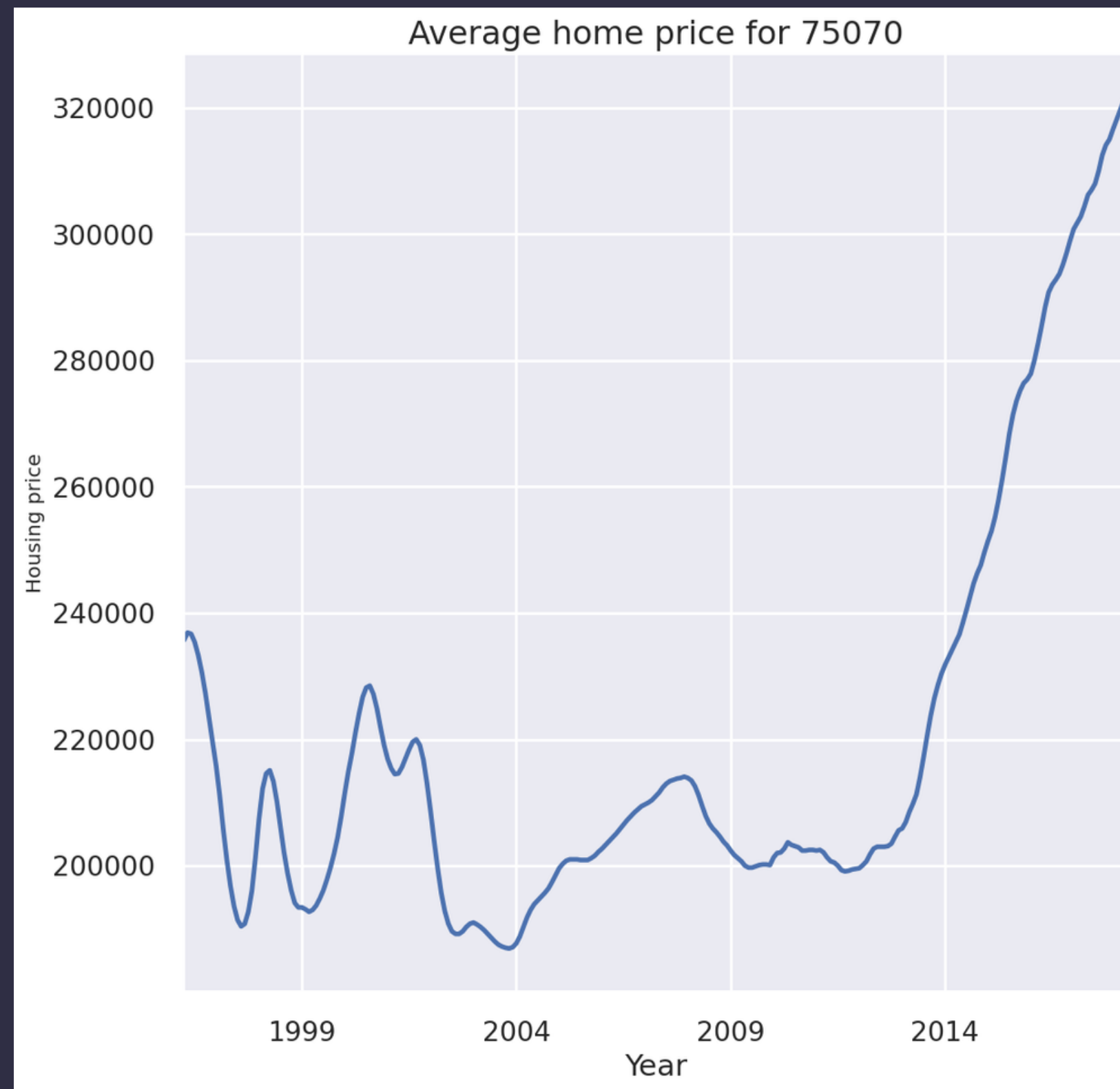


Average House Prices for various zip codes

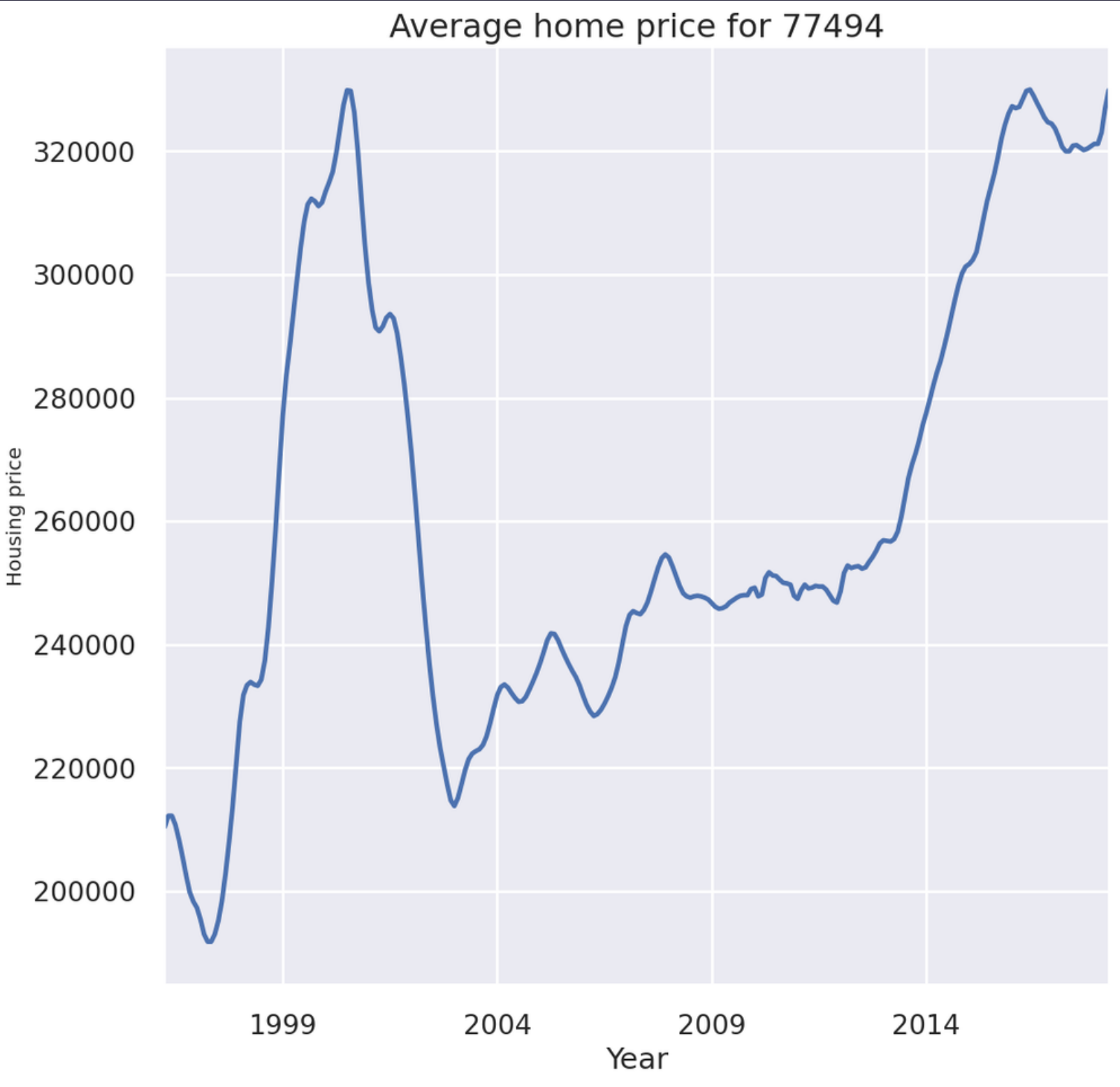
zipcode 60657



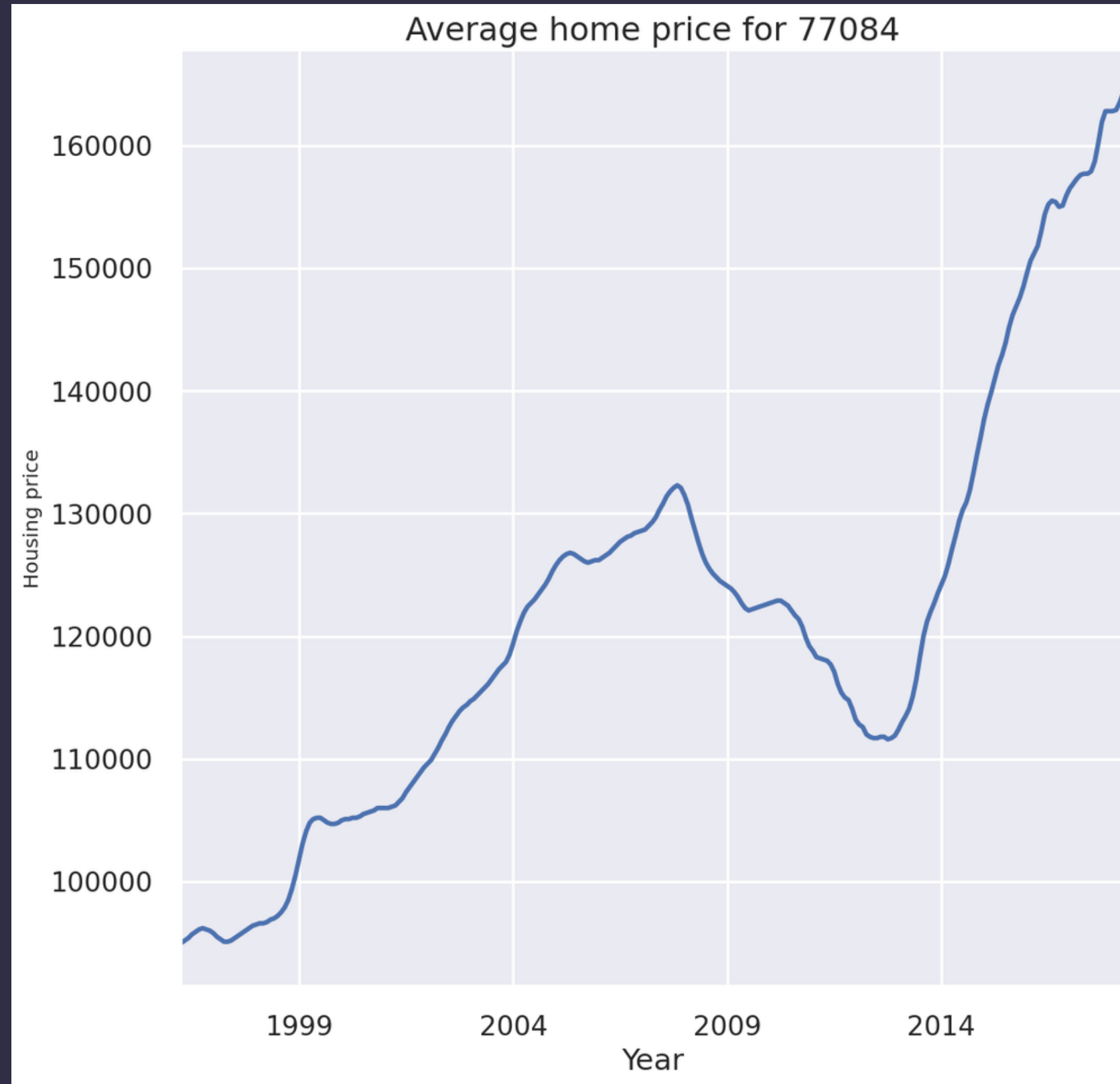
zip code 75070



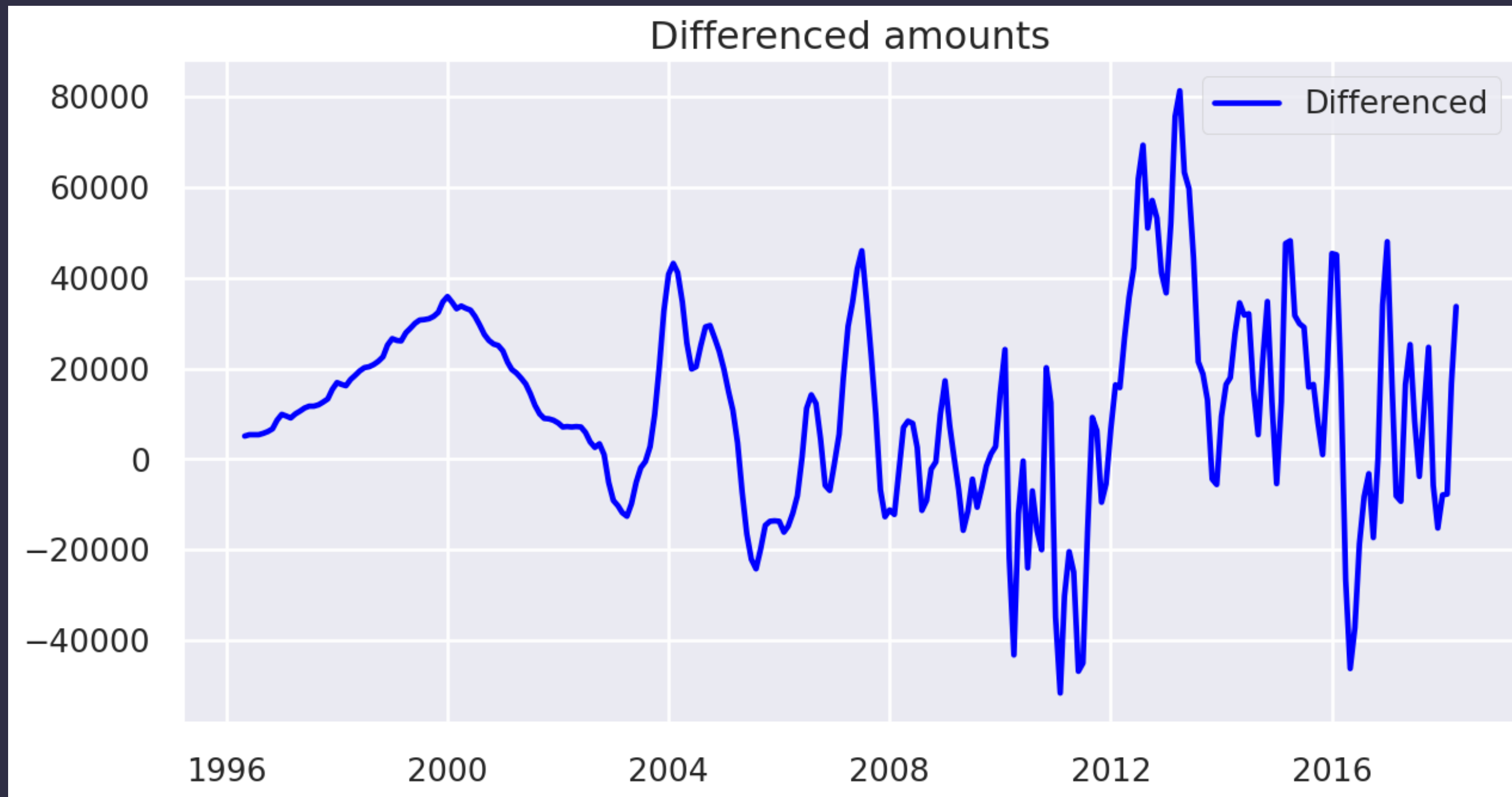
zip code 77494



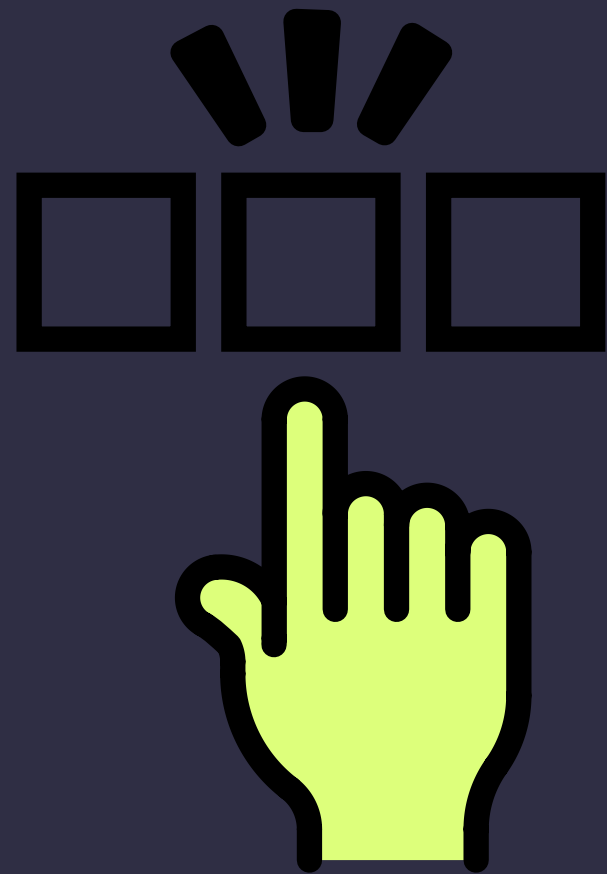
zip code 77084



Removing trend

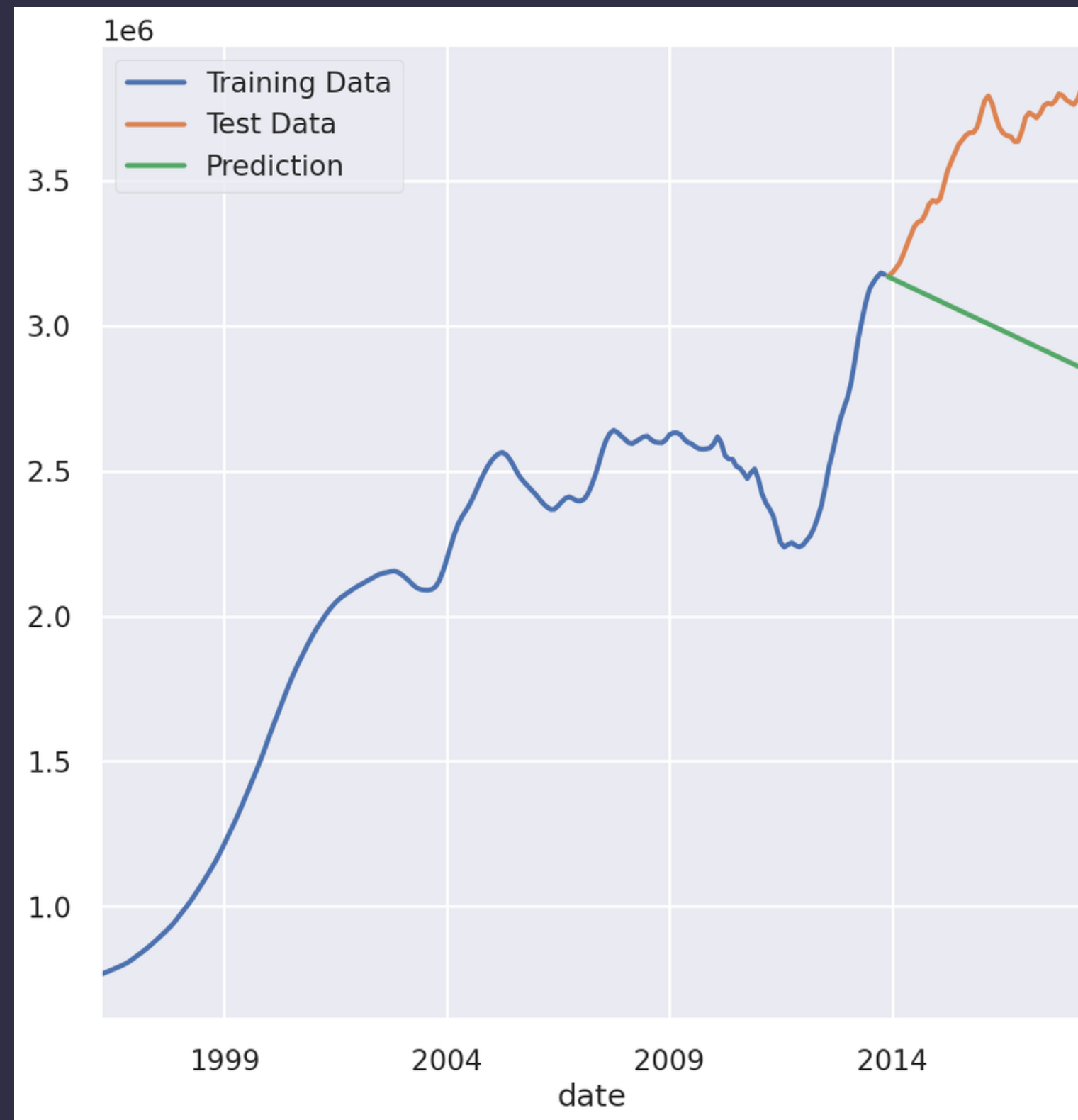


Model Selection

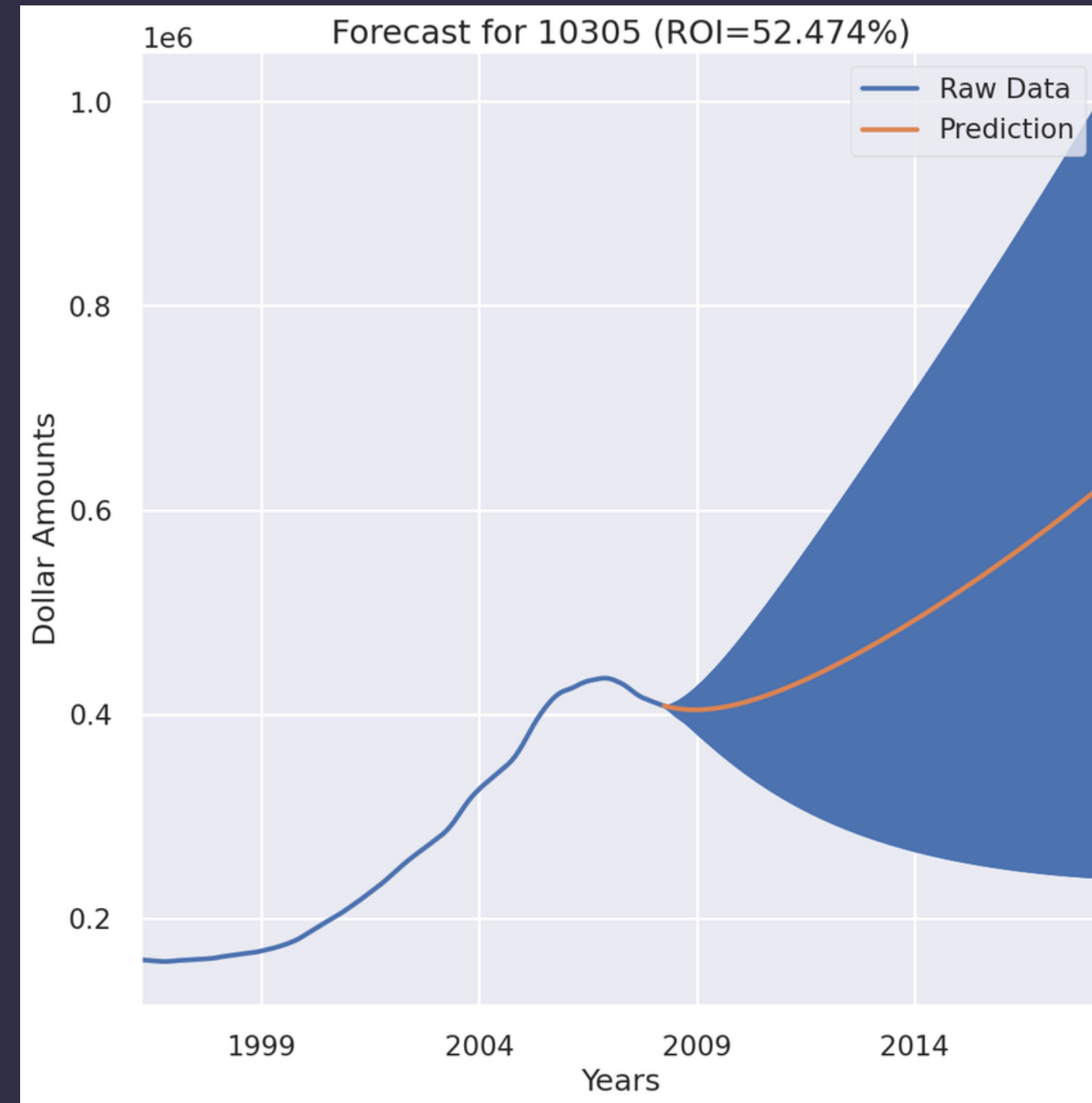


- ARIMA Model

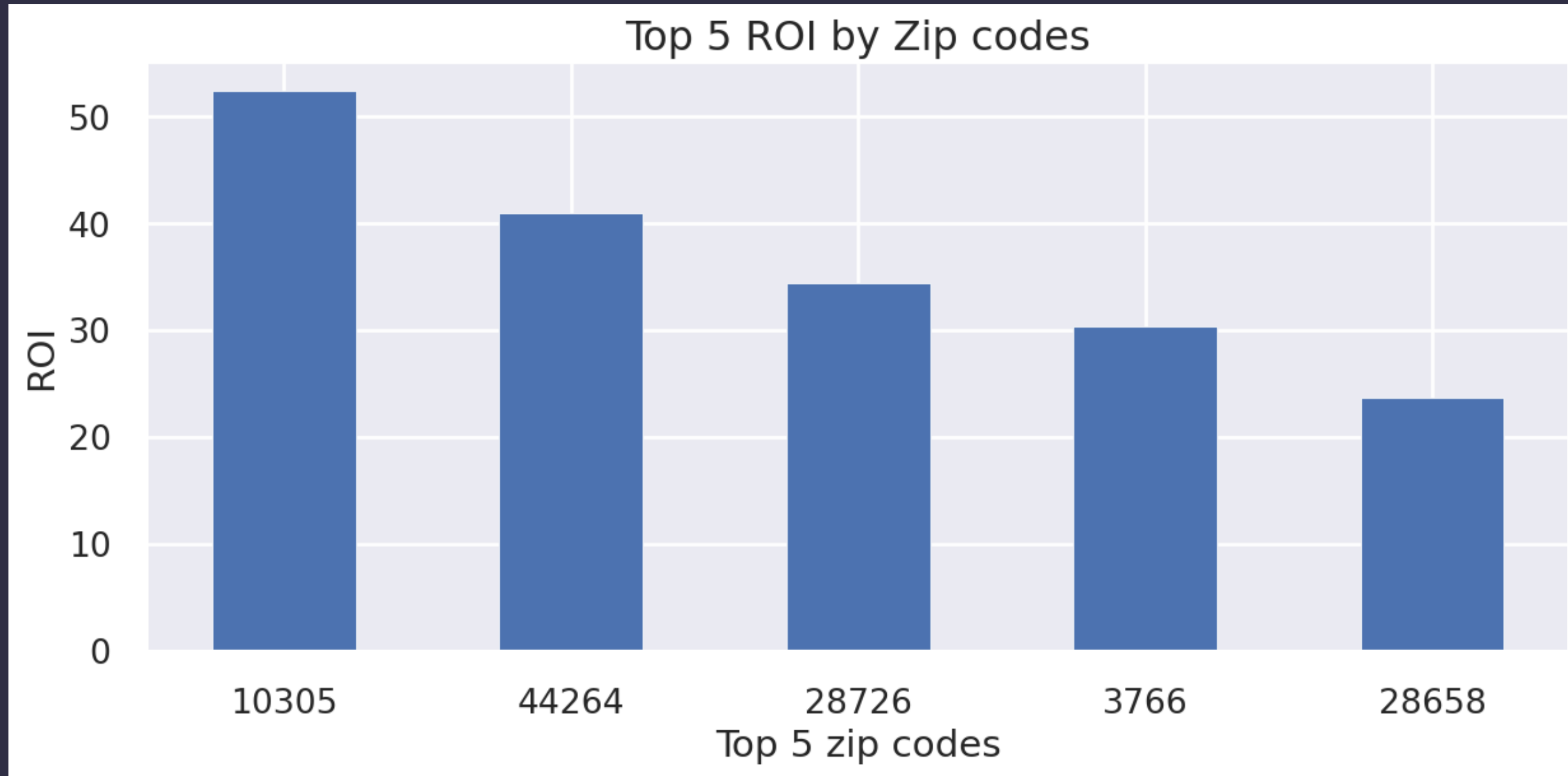
Model Prediction



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**