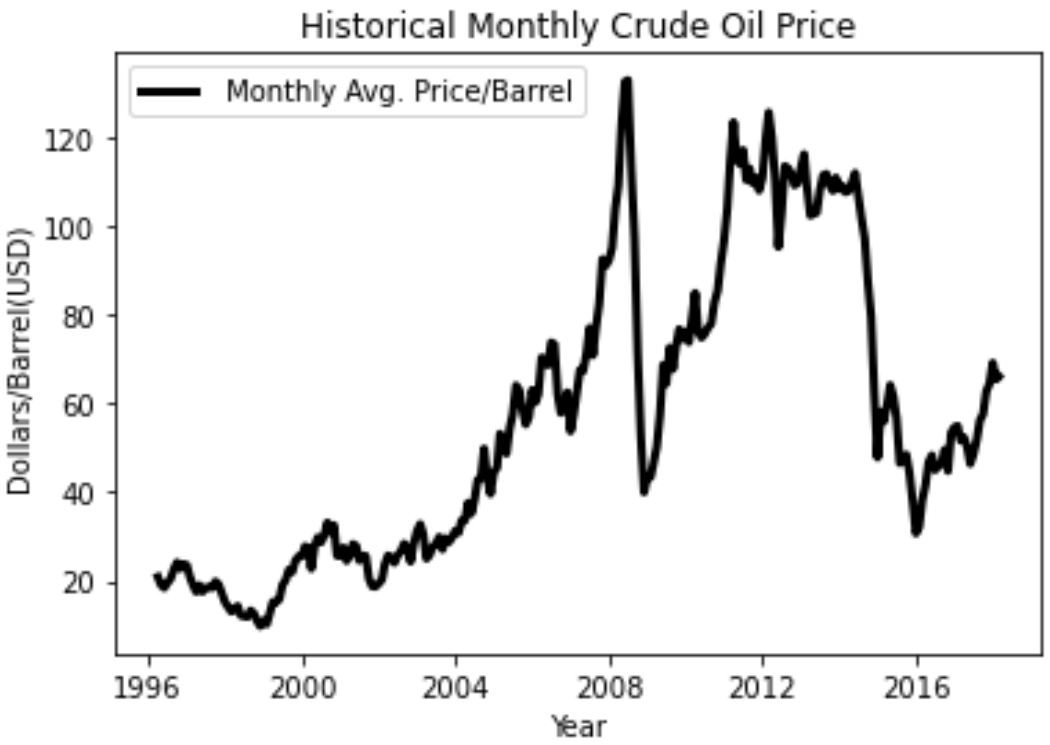
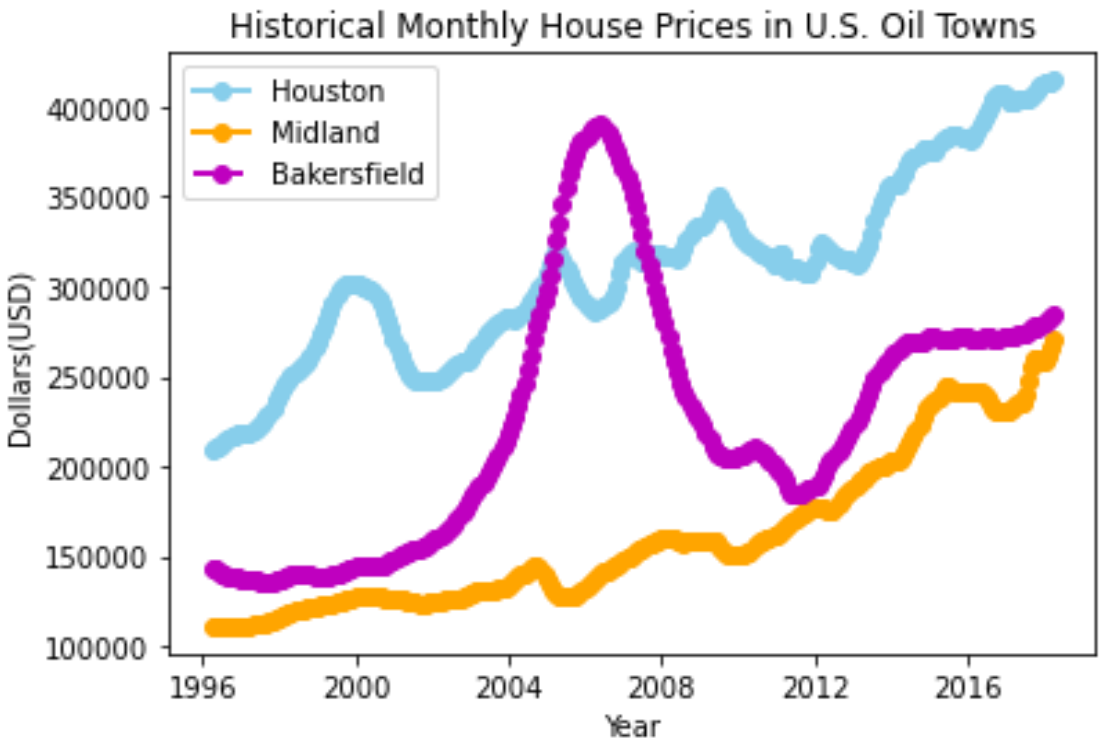
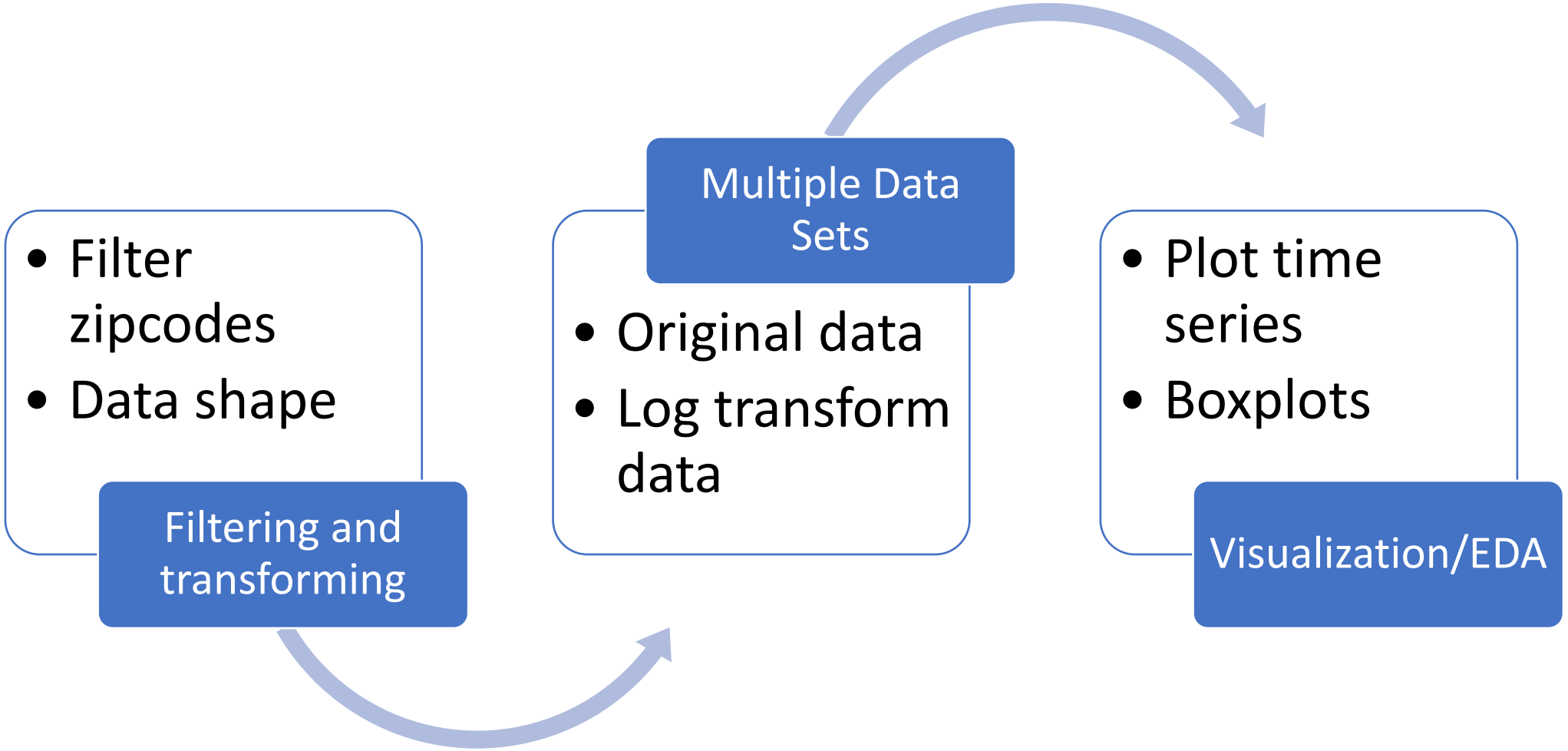
Do Fluctuating Oil Prices Mean Fluctuating Home Prices?

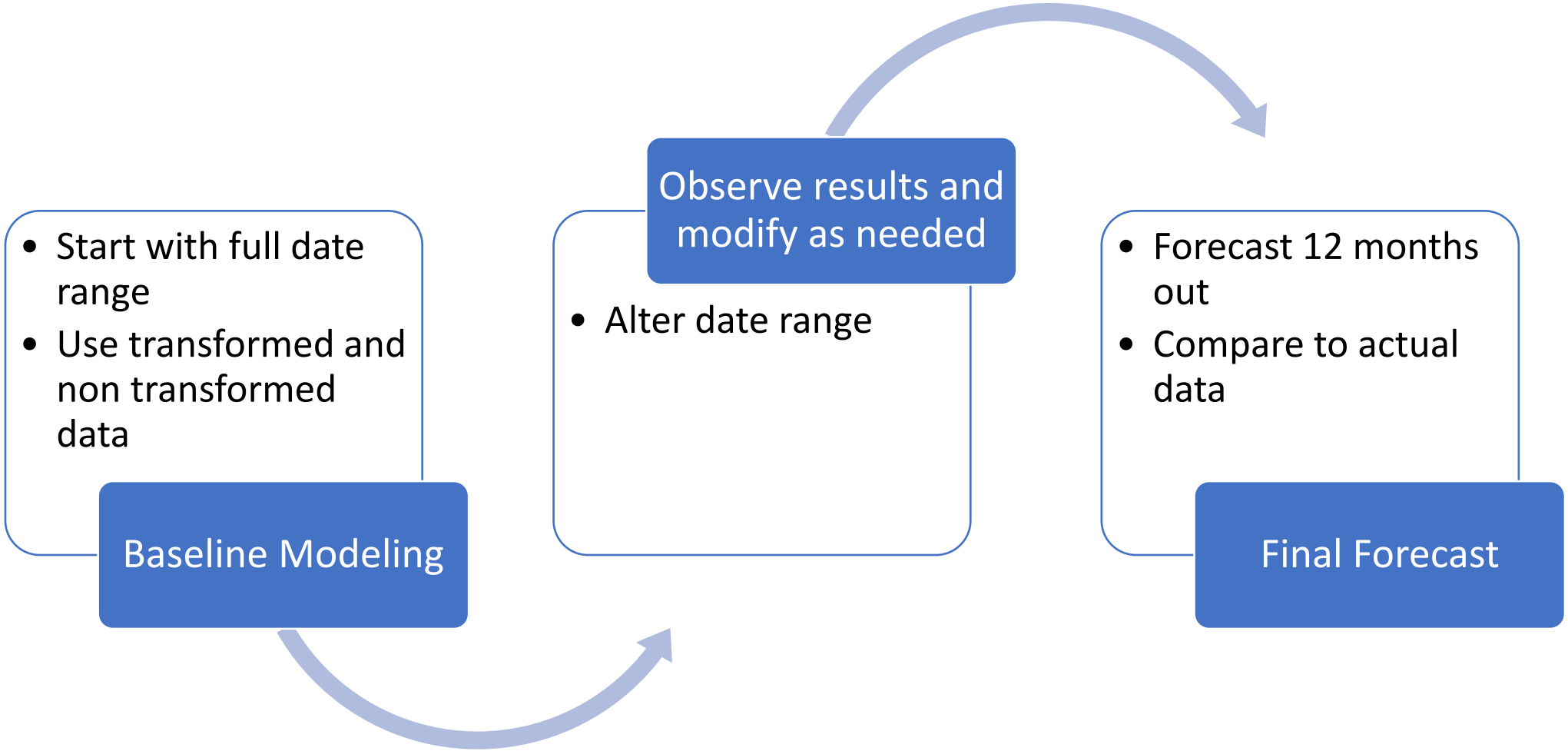




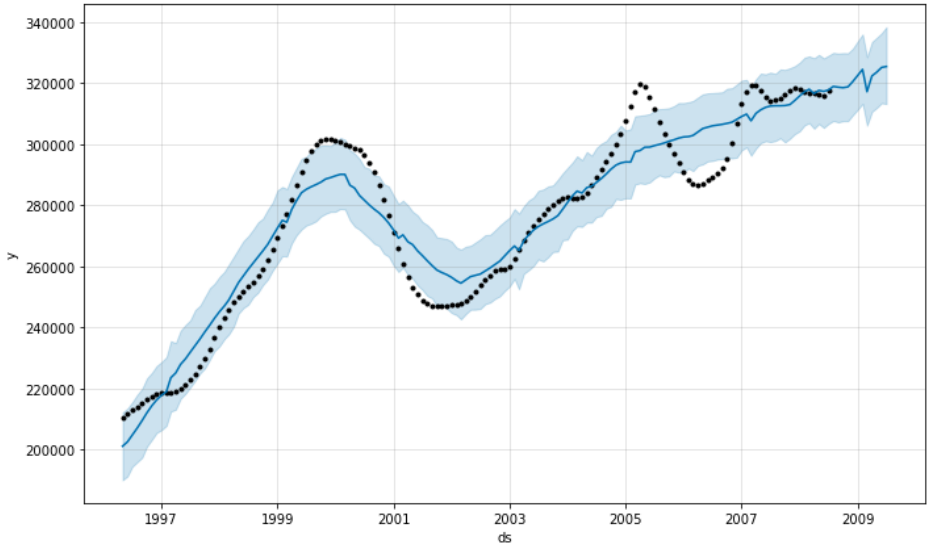
Data Cleaning and EDA

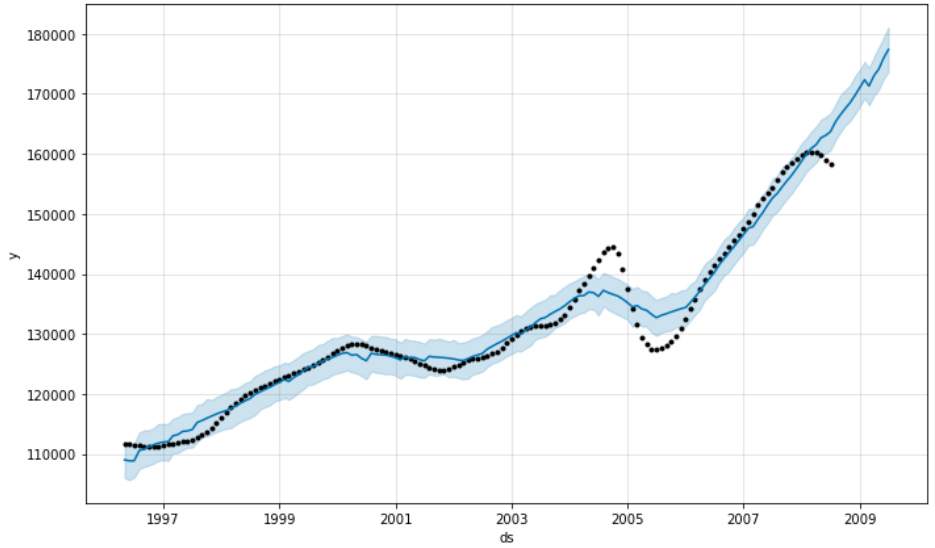


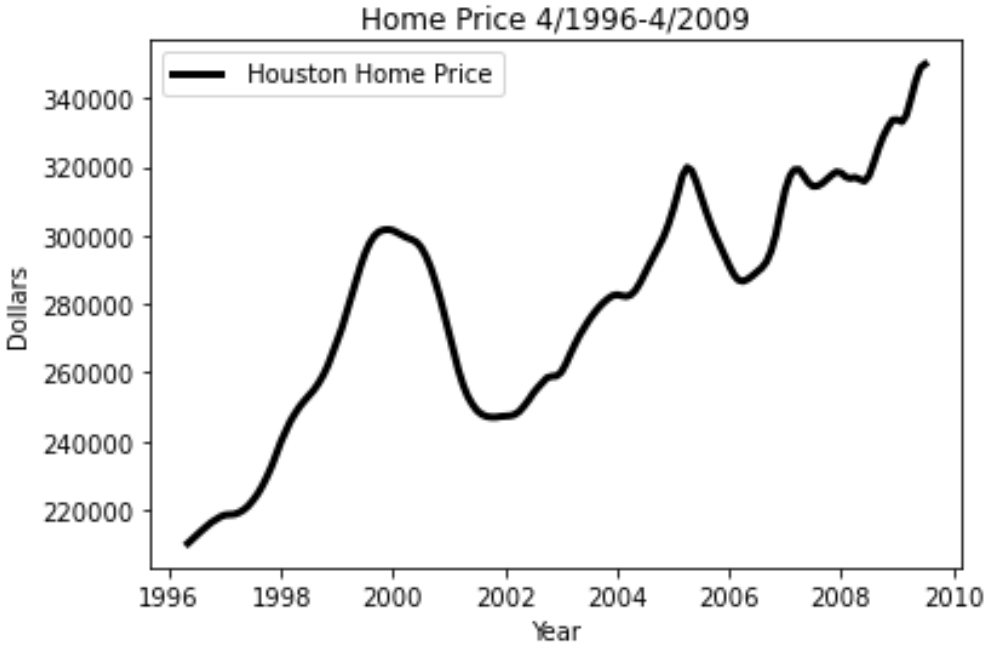
Modeling with Prophet

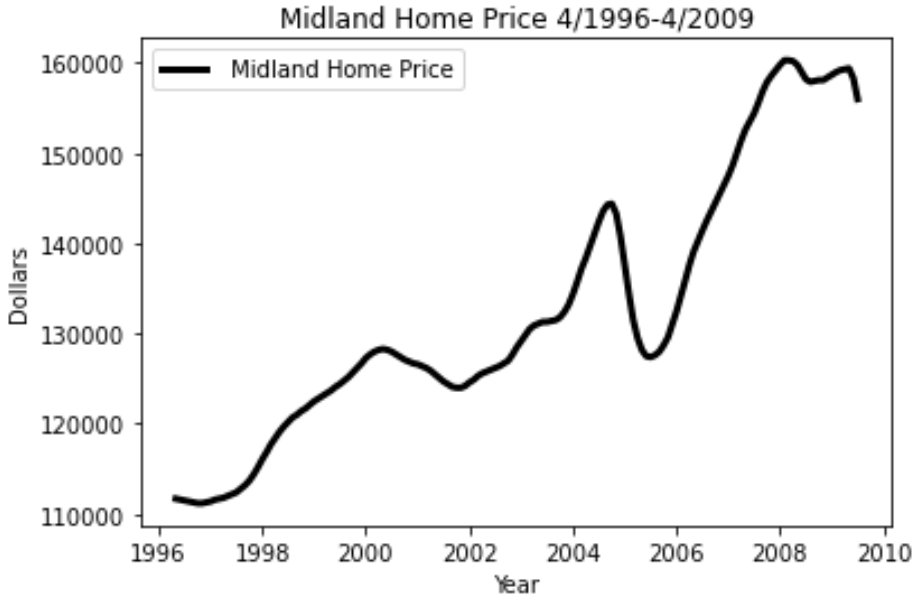


Facebook Prophet Performance









Conclusions and Future Work

- Conclusions
  - Prophet was used to see if house prices could predict a crash in oil prices
  - While cities like Houston faired well, less diverse cities like Midland did not do so well when it came to model performance
  - While oil prices may be an indicator of house prices at a given time, using them to predict house prices does not work well for cities that rely on oil as the only industry
- Future Work
  - Attempt to use multiple algorithms and compare performance
  - Select different time ranges, some oil crashes were worse than others