

Top 20 Metropolitan Statistical Area Housing Price Analysis

An analysis of Housing Price Index in the major metropolitan areas of the United States

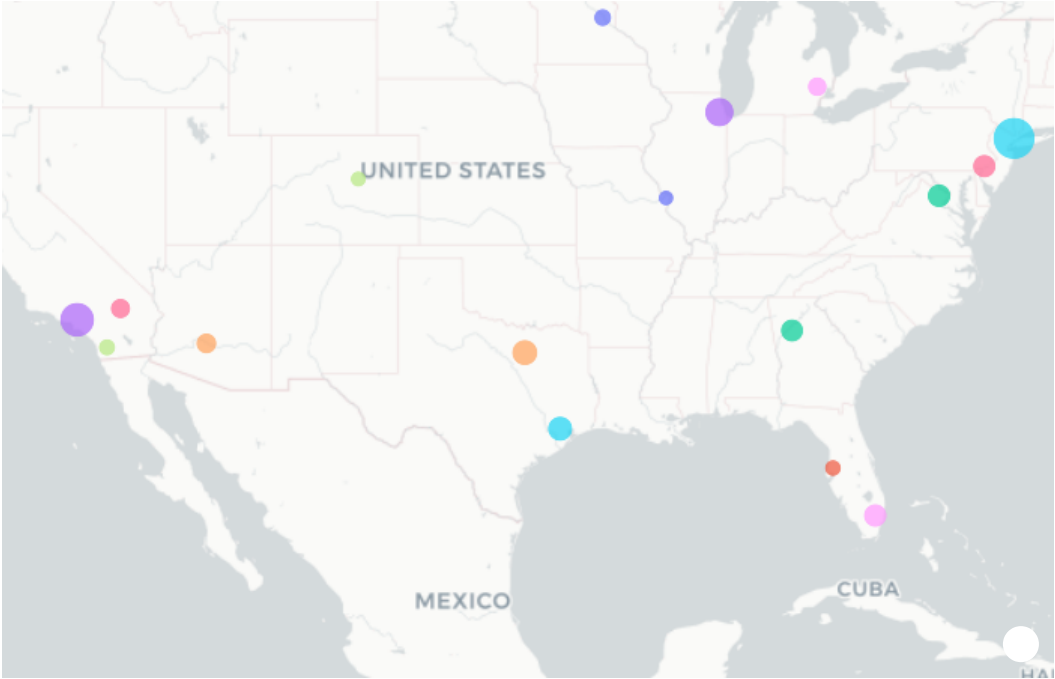
Team: Alex Beckham, Jacob Jalomo, Joshua Bond

- Overview
- Historical Data
- Correlations
- Forecasts

Top 20 MSA in the U.S. by Population

Top 5 MSA are New York City, Los Angeles, Chicago, Dallas-Fort Worth, and Houston.

Hovering over the MSA bubbles will show full MSA name, Population, and Latitude-Longitude coordinates.



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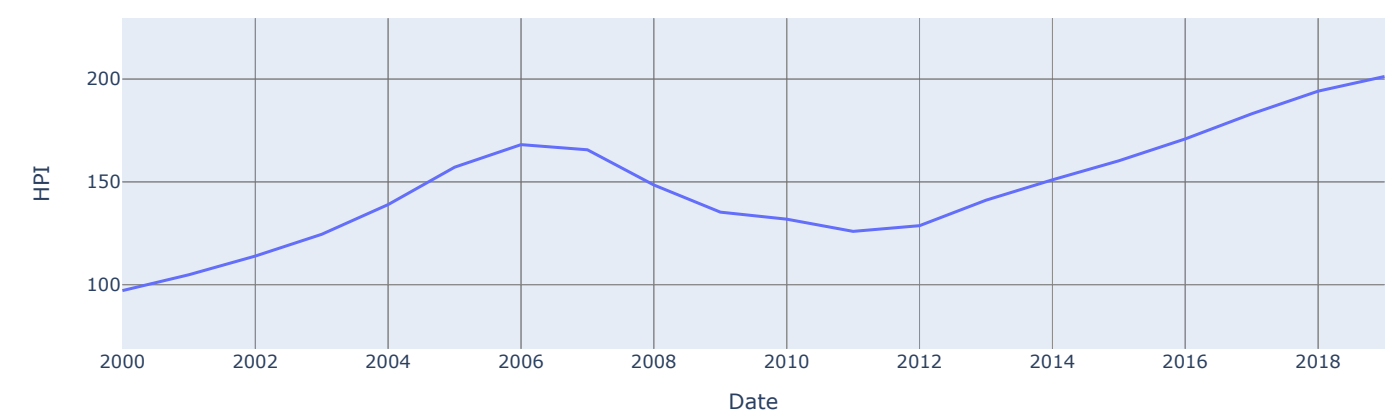
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Overview Historical Data Correlations Forecasts

Historical Trends by MSA for HPI, Population, Personal Income, and Total Number of Jobs

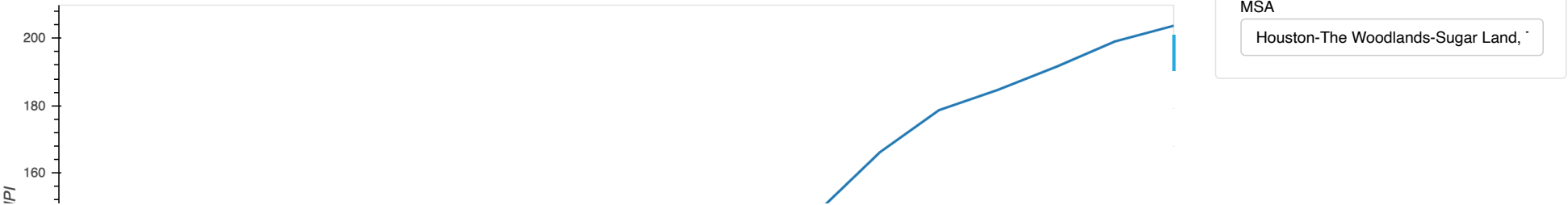
Historical Data 2000-2019

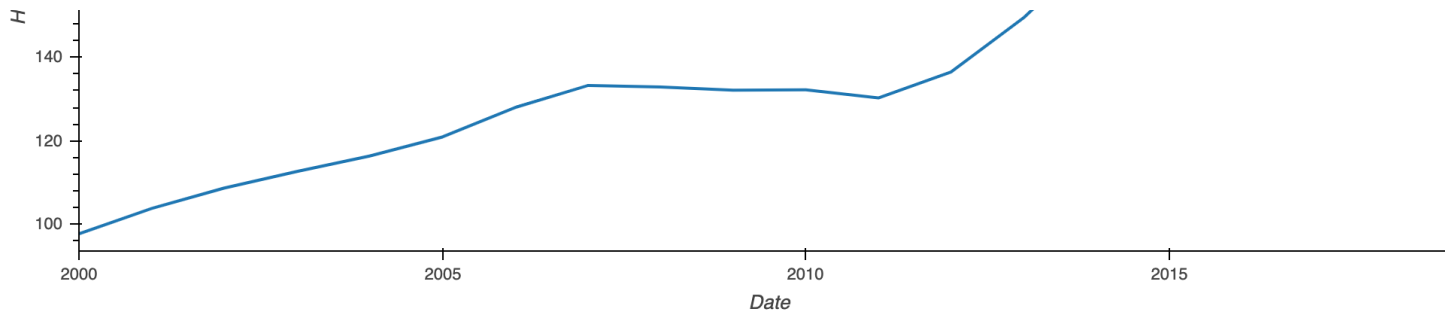
Average Housing Price Index by Year, All MSA



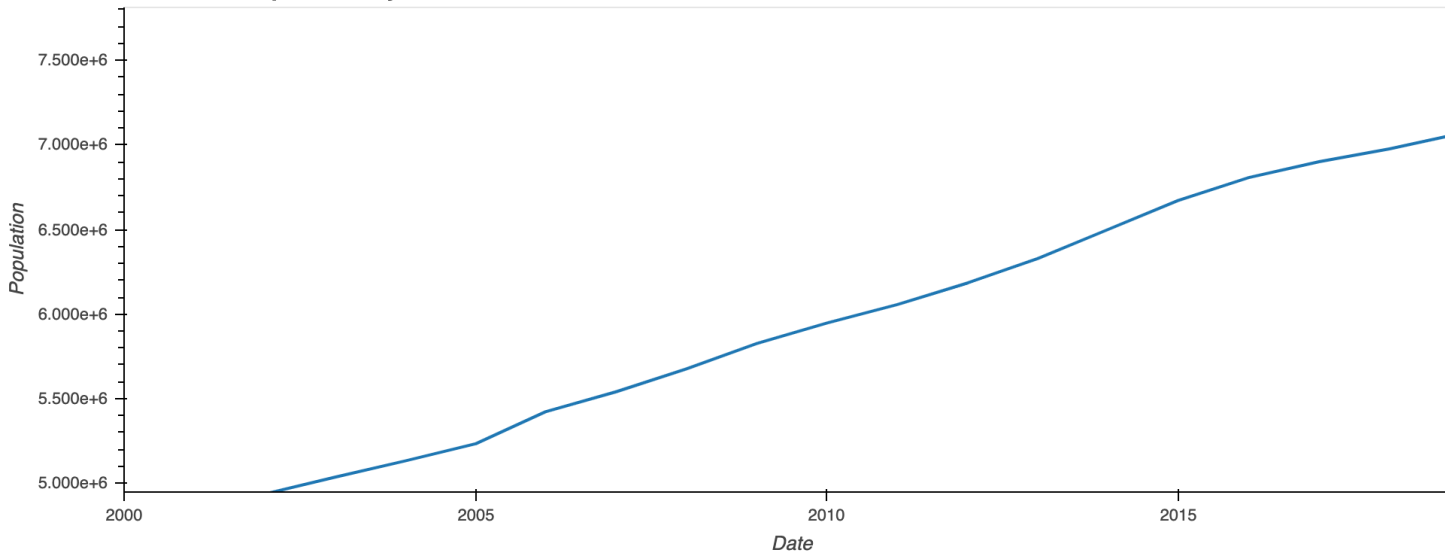
Historical Trends by MSA for Individual Variables

Historical Housing Price Indices by MSA, 2000-2019





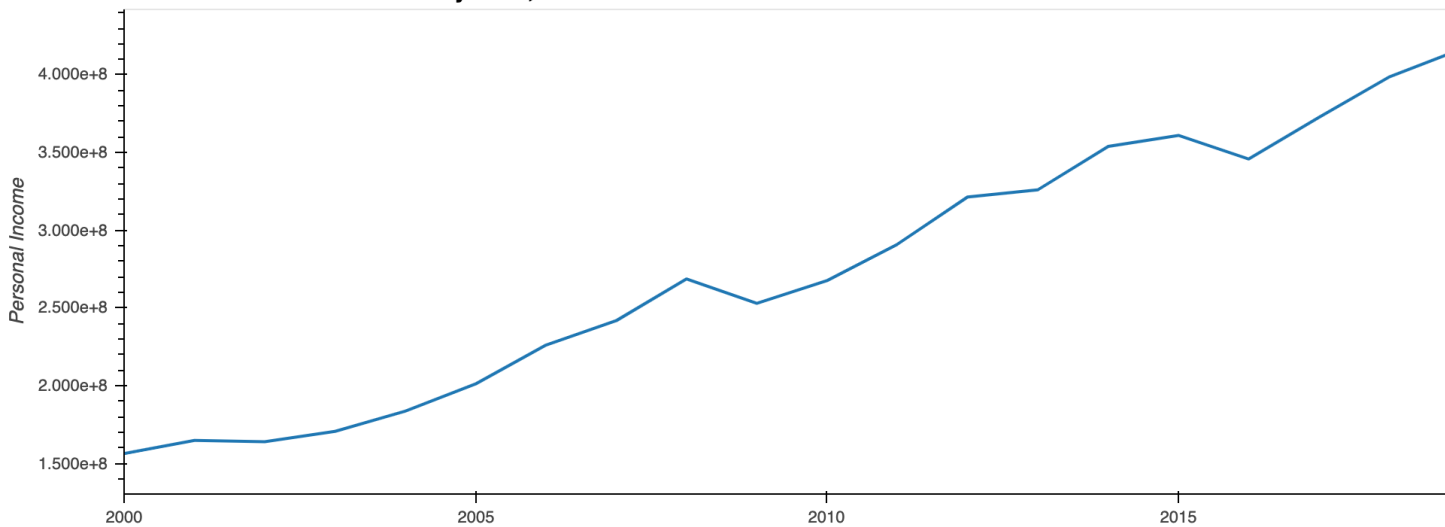
Historical Population by MSA, 2000-2019



MSA

Houston-The Woodlands-Sugar Land, TX

Historical Personal Income by MSA, 2000-2019

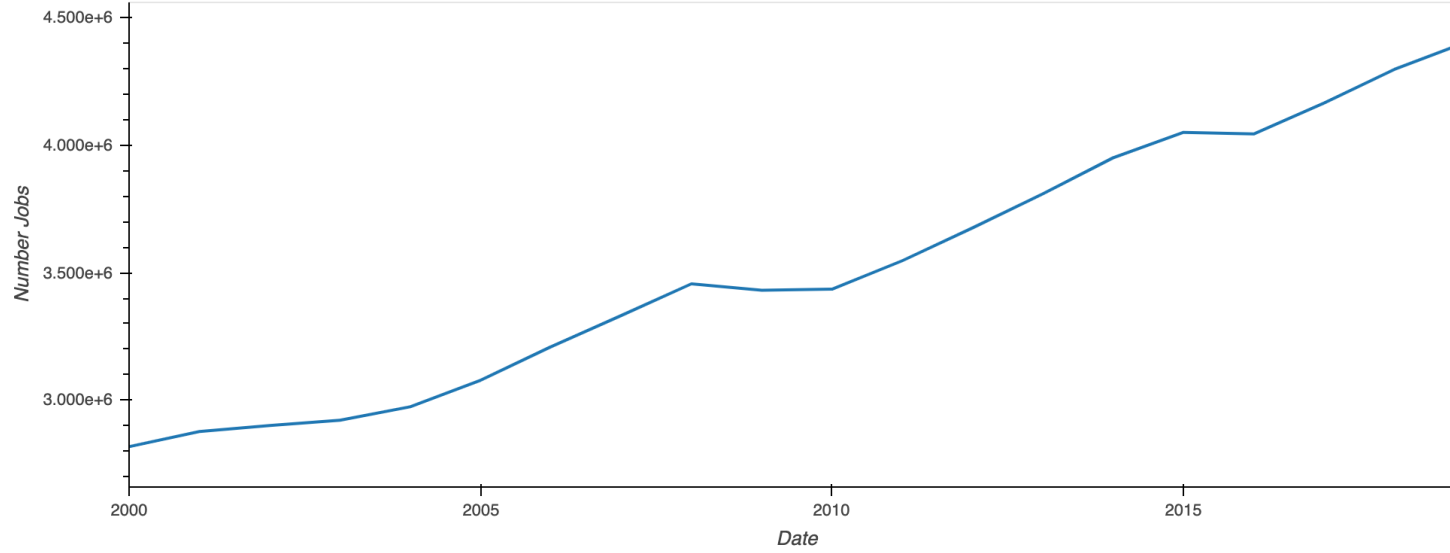


MSA

Houston-The Woodlands-Sugar Land, TX

Date

Historical Employment by MSA, 2000-2019



MSA

Houston-The Woodlands-Sugar Land, TX

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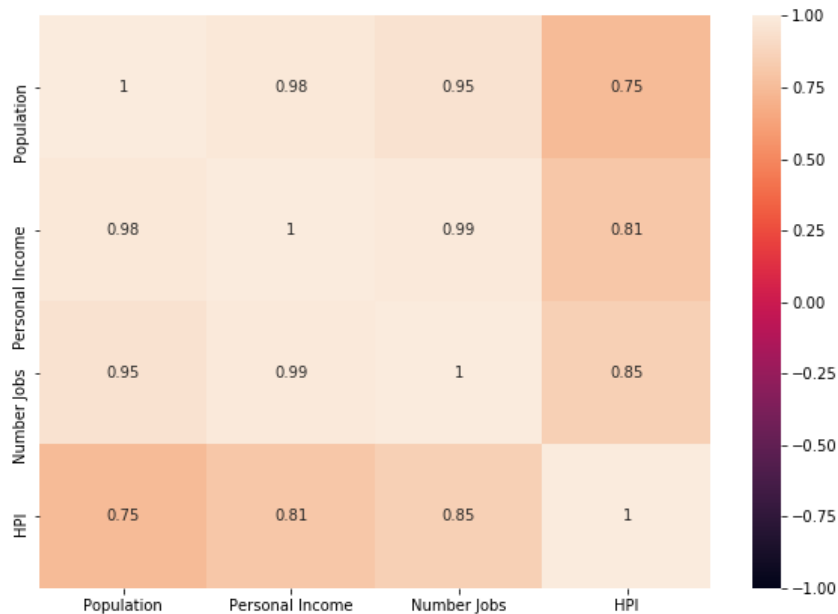
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Overview Historical Data **Correlations** Forecasts

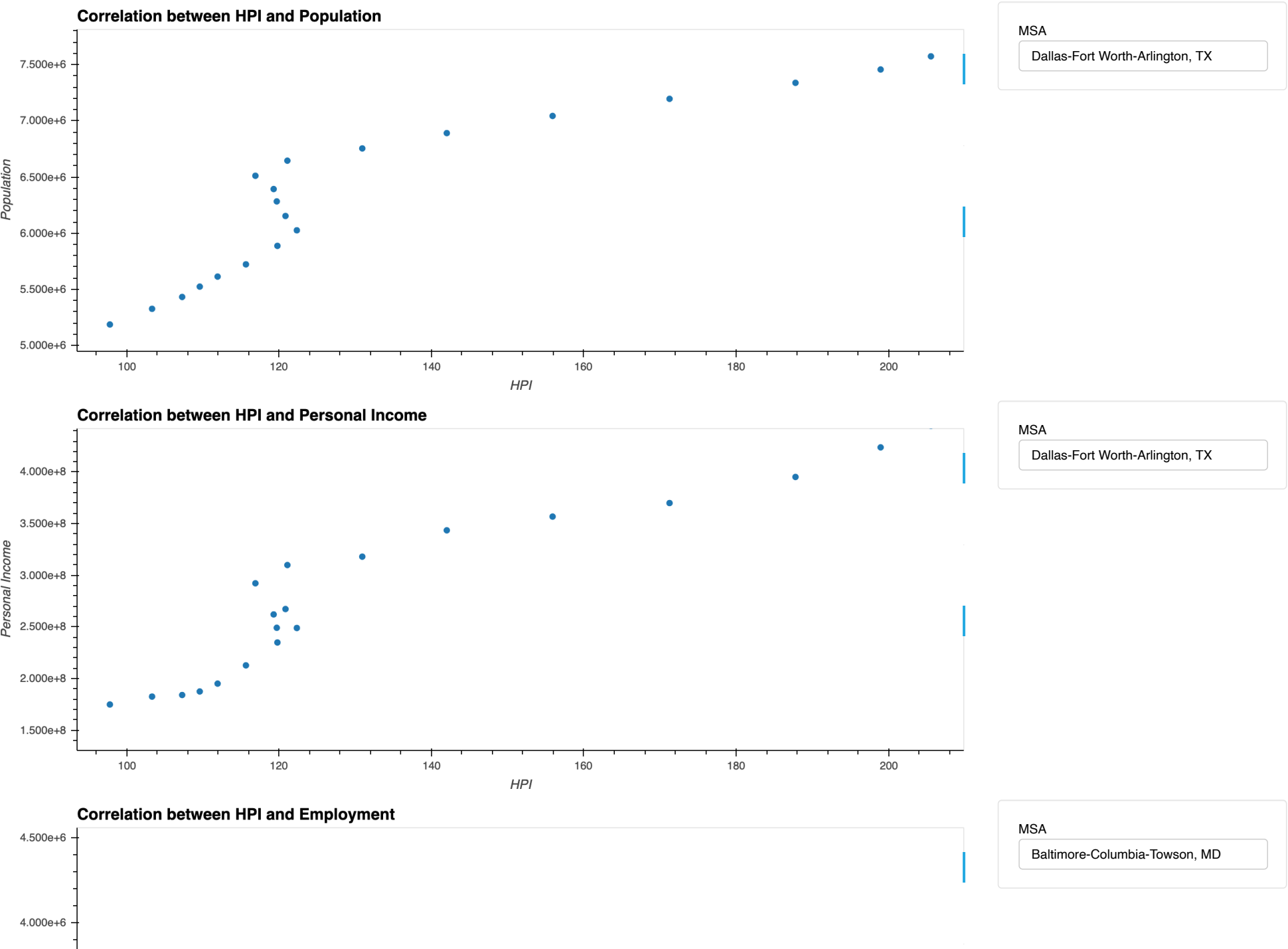
Correlating Housing Price Index, Population, Personal Income, and Employment

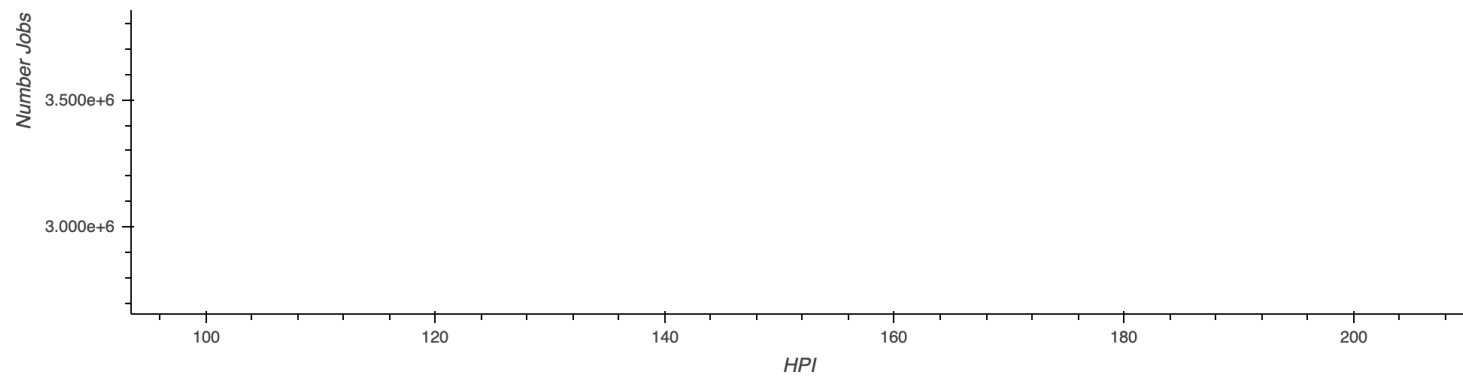
Determining whether Population, Personal Income, and Employment have a high correlation with Housing Price Index. High correlations will indicate upward trends in these variables can signal an upward trend in housing price index.

High-Level Correlation Between All Variables



Individual Correlations Grouped by MSA





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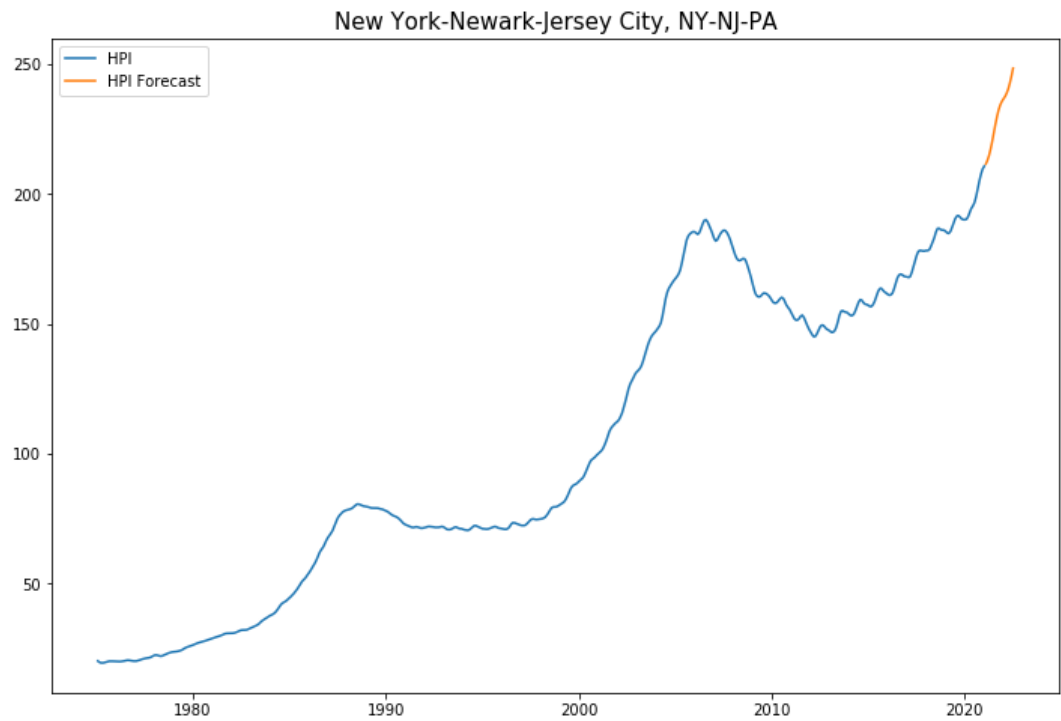
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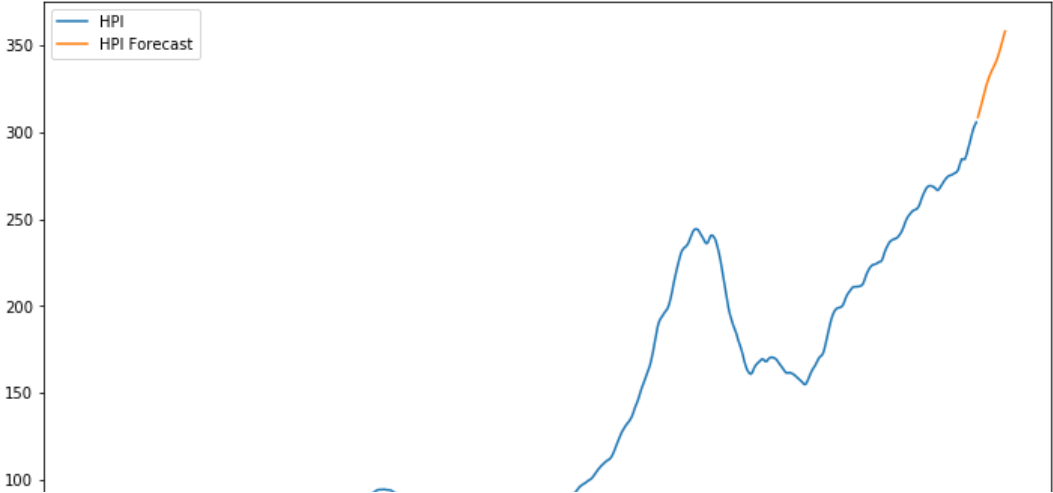
Overview Historical Data Correlations **Forecasts**

Housing Price Index Forecast for the Next 18 months

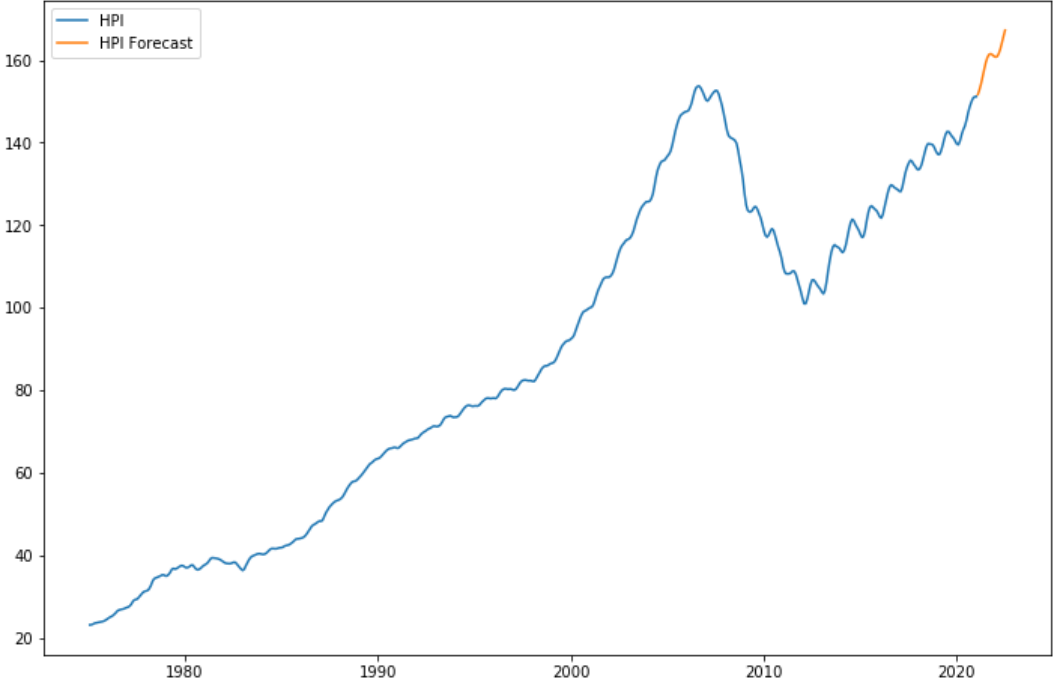
Forecast based on Timeseries Analysis of Monthly HPI dating back to 1975.
All MSA have HPI trending upward.



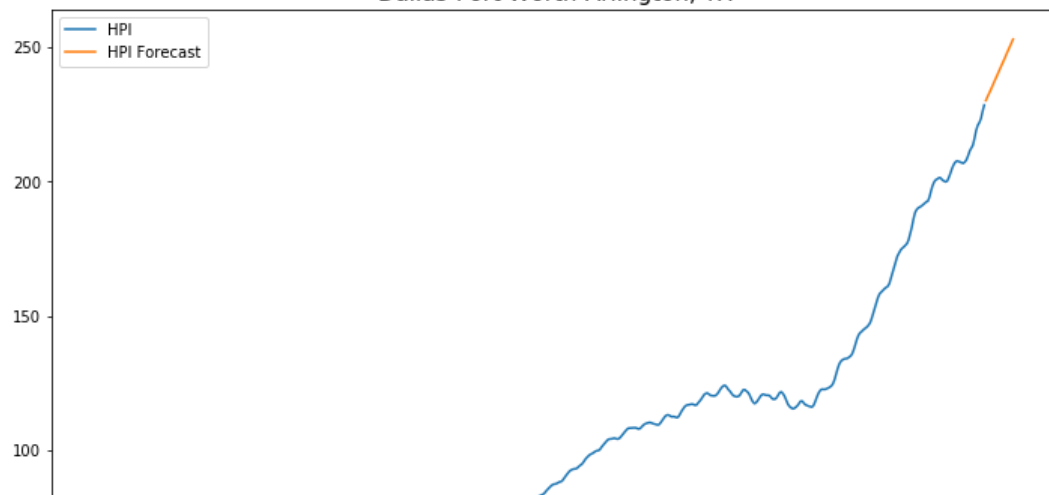
Los Angeles-Long Beach-Anaheim, CA



Chicago-Naperville-Elgin, IL-IN-WI



Dallas-Fort Worth-Arlington, TX



Houston-The Woodlands-Sugar Land, TX

