Minhas Final Project

Housing, HPI, and Homelessness

This project contains the following folders and files:

1. data/ - folder containing all project data, including raw and cleaned datasets

* state\_population\_10-22 – all state population data
* state\_HPI – all state HPI data
* state\_housing\_inventory\_10-21 – all state housing inventory data
* state\_homeless\_counts – all state homelessness data
* population\_projections – all state population projections
* Final\_Project.hyper - Tableau data extract
* final\_data/ - folder containing preprocessed data
  + all\_features – long-form feature data used for Tableau
  + all\_projections - long-form projection data used for Tableau
  + final\_homeless\_projections - homelessness model output
  + final\_hpi\_projections - HPI model output
  + homeless - cleaned homelessness data for modeling
  + housing - cleaned housing data for modeling
  + hpi - cleaned HPI data for modeling
  + population - cleaned population data for modeling

1. notebooks/ - folder containing all notebooks

* housing\_data\_cleaning - cleans raw data input for use in modeling
* final\_data\_prep - cleans modeling input and output data for Tableau
* housing\_data\_model\_final - keras neural networks for homelessness and HPI projections

1. submissions/ - folder containing written submissions for the project

* minhas\_final\_paper - final paper submission
* minhas\_literature\_survey - literature review (previously submitted)
* minhas\_proposal - initial proposal (previously submitted)
* minhas\_revised\_proposal - revised proposal (previously submitted)

1. final\_project.twb – Tableau workbook file containing the dashboard and all visuals

* The dashboard is also publicly available at:

<https://public.tableau.com/app/profile/katon.minhas/viz/HousingHPIandHomelessness/>