

To assist cities to evaluate future land use scenarios, my data science task is to build a home price prediction model. Seattle Metropolitan Area is one of the most dramatic growth regions in the U.S. Along with jobs and traffic congestion; the housing market has been a hot topic in Seattle for years. City planners face pressure in increasing land use capacity to match the demand. I discovered historical permit licenses could be a reliable and rich data source to help predict changes in land use price and quantitatively measure housing policies.

Any significant renovations or new development must file permits with the cities. Licenses provide all sort of features of the residential property. However, it doesn't have the sale price, so I will combine the permit data and Zillow home sales data to develop a predictive model. Then apply the model to the land use scenarios to predict the potential home prices.

