

Project proposal

The purpose of this project is to find out if the average housing prices in the United States have gone up since the start of the global pandemic in 2020 to 2022. Not only are we trying to discover if the average housing price has gone up but we are also trying to figure out the potential reason behind it regarding if houses have actually improved or if their prices have risen without the actual house value rising as well. We will do this by first of course researching and understanding what attributes of a house determine its value and how its value can improve. By doing this we will have a better understanding on how to view the data regarding the actual price of houses because we will be able to tell if the house is overpriced depending on its attributes and if houses in the U.S have actually improved. For example if a house has 100 acres of land and it's expensive it wouldn't be fair to put that piece of data in with every other house in the United States. Once we have an understanding of what makes a house valuable we will then begin making our data set by first finding data on the average housing price per year from 2020-2022 and cleaning it to remove outliers as mentioned before. The other part of our data set we will then be looking at is data regarding how much money has been put into the improvement of houses. For example the average size, age and condition of houses. Once we have collected, analyzed and cleaned the data we will then begin creating our model. Our model will be based on graphing and charting the data collected year to year based on the simultaneous creation of three graphs. The model will first analyze the data regarding housing prices over the years and create a graph showing the rise or decrease of housing prices based on the data given. The model will next create a graph based on the average attributes of each house and how much money they may cost as well as how it impacts the value of the house. Finally the model will create a graph comparing the two sets of data by comparing the house prices to the improvement of the

attributes of each house. By showing these graphs the model will be able to answer 3 questions about the housing market in the U.S. The first one being answered by the first graph mentioned on if the average price of housing in the U.S rose? The next one being if the houses have actually improved in the U.S and the last one being how do those improvements(if there are any) compare to the current average price of housing. By showing these 3 graphs we will be able to show if the price of housing in the U.S has truly gone up or down since the beginning of the global pandemic.