# Best Investments Housing Market U.S.A

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## What defines a good investment?

- Low Risk
- High Return
- The lower the risk and the higher the return the better the investment will be for a house flipper.



## **Business Model**

- I would use my predictions for house flippers, short term arbitrage deals, and any 1 year lease buildings.
- My predictions work best for these cases because the housing market is risky and my model had a higher error rate than the predicted return. Meaning an investor has to buy for less than fair market value and create value to make money without risking too much.



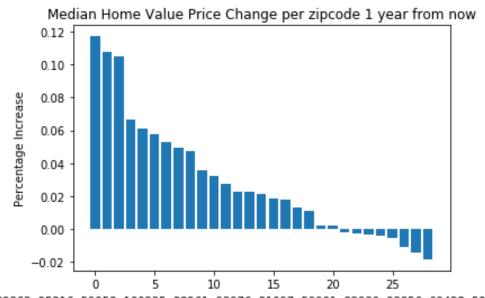


# Investing and Risk

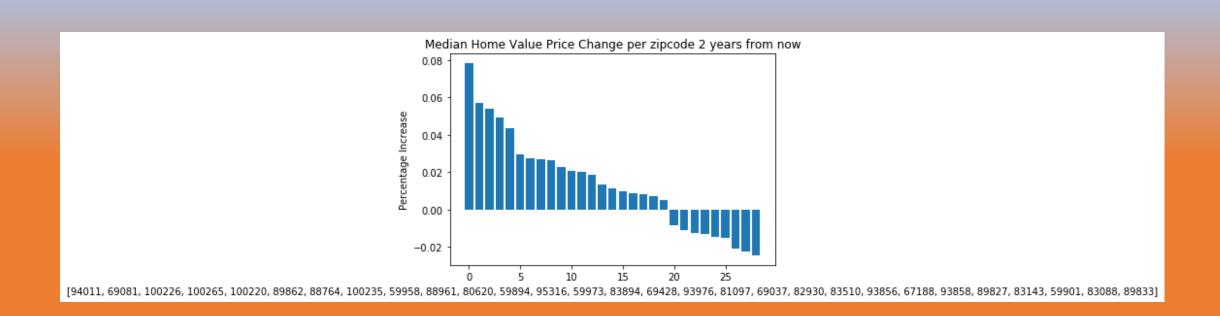
- I lowered the risk of the investments in certain zipcodes in few ways
- Filtered only the top 5 long term returns per state
- Remove zipcodes with negative future predictions
- Only zipcodes with less than a 15% model training error or less
- Filter by top percentage return predictions in 1 year, 2 year, and 4

years





[94011, 69081, 100265, 88764, 100220, 59894, 100226, 80620, 89862, 95316, 59958, 100235, 88961, 93976, 81097, 59901, 82930, 93856, 69428, 59973, 83143, 83088, 69037, 83894, 89827, 67188, 93858, 83510, 89833]



## The Top 5 Zipcodes

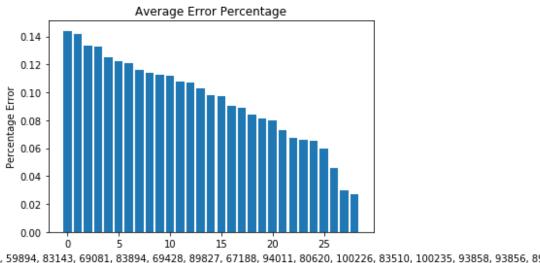
- 94011 Burlingame California 9% error 12% return 1 year
- 69081 Crofton Maryland 11% error rate 10% return 1 year
- 100226 Key Largo Florida 8% error 5% return 1 year
- 100265 Unable to find on google, 3% error 10% return 1 year
- 100220 Memphis Tennessee 8% error 5% return 1 year

## The 1 Year Investments are the best

- The 1 year investments were a better percentage return
- The 2 and 4 year investments are not worth the same amount or less than ½ the return as the 1 year



### Error Rate



[93976, 89862, 95316, 83088, 88764, 82930, 88961, 59901, 100220, 59894, 83143, 69081, 83894, 69428, 89827, 67188, 94011, 80620, 100226, 83510, 100235, 93858, 93856, 89833, 59973, 69037, 81097, 59958, 100265]



The Error is the percentage that the predictions were different from the actual price in the training model. 15% or less is a reasonable amount of error and risk.



### Recommendations

- I would suggest buying homes that are undervalued and fix them so that the house is worth more than what is spent on fixing and buying it.
- The market is not good enough to simply buy at market price and then wait for the market to go up. The risk would not be worth it.
- I would make sure to buy and sell within 1 year because it is the most accurate prediction time period and the best return possible.



### **Future Work**

- Some future work would be running models on all the zipcodes and tuning the model parameters to make better models.
- Also adding in economic factors like jobs, schools, business projects, taxes in that area, and how many people leave versus how many people move there.
- Figure out which houses per zipcode go up in value the most, the nicest houses, the middling houses, or the poor people houses.



# Thanks

• Thanks for looking at my presentation!