

Project 3

Alexandra Taft
Anthony English
Arlette Varella
Nathan Bolt
Nirupama Shankar

Project 3 - What would a house in Apex, NC sell for a year from now?

Sub question 1: is there a predictable seasonal swing in price

Sub question 2: Estimate house sale price by various features/ attributes

Compare single family home and townhouses

November 2020

Problem:

1. Dataset: MLS Triangle Area
2. What ML approach(es):
3. Repository: https://github.com/taftap8/apex_real_estate

Tools:

1. List of tools we plan to use
- Extract data, transform in python/ jupyter notebooks
Libraries: Tensorflow/ Scikit-Learn, Pandas
Tableau: viz for data presentation and filter selection

Project Presentation:

1. Tableau presentation mode

Project Timeline:

Timeline			
Title	Dates	Assigned to	Description
Project Proposal	Oct 31, 2020 - Oct 31, 2020		Create our project proposal.
Class 1	Nov 3, 2020 - Nov 3, 2020		Extract pertinent data from MLS Create model - test multiple models LSTM (long, short term memory)
Class 2	Nov 5, 2020 - Nov 5, 2020		Seasonality comparison on pricing data Linear regression for prediction data (future price analysis)
Class 3	Nov 7, 2020 - Nov 7, 2020		Data visualizations/ tableau
Class 4	Nov 10, 2020 - Nov 10, 2020		Data visualizations/ tableau
Class 5	Nov 12, 2020 - Nov 12, 2020		Finalize presentation and analysis
Presentation	Nov 14, 2020 - Nov 14, 2020		Final presentation