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| **Project Track** | Project 4 Group 3 |
| **Project Name** | Machine Learning House Prices |
| **Project Team Members & Roles + Ownership** | * Adams Olweny, Manuel Sosa, Dawn Reynoso * Git Hub owner: Dawn Reynoso * Dataset owner: Manuel Sosa |
| **Communication Methods & Out of Class Meeting Times** | |
| **Primary:** Group 3 - Slack Channel & Zoom  **Emergencies & Escalations:** Group Text/Email Thread, Slack Channel  **Out of Class Meeting Times:**   * 4/25 Thursday 630pm-930pm * 4/28 Sunday 8:00 pm * 5/3 Friday - 8pm * 5/4 Saturday - 3:30 pm * 5/5 Sunday - 830pm | |
| **Project Description - Why is this a problem worth solving?** | |
| Using supervised machine learning and employing alternative variables and sophisticated regression methodologies for forecasting housing values.  In order to ascertain whether the projected price of the property aligns with its accurate valuation, it is imperative to consider both micro and macroeconomic factors. This evaluation aims to determine whether the buyer or seller is obtaining a fair value for the amount of money being spent or received? | |
| **Top 2 Datasets Being Pursued** | |
| * <https://www.kaggle.com/competitions/house-prices-advanced-regression-techniques/data> | |
| **Top 3 Questions to Answer** | |
| * Predict the price of the house based on the overall condition of the house? * Identified which variables have a strong correlation to the house price? * Identified which variables have the least correlation on the house price? | |
| **Machine Learning Methodology Description** | |
| * Supervised Learning - Linear Regression * Decision Trees and Random Forest Models | |
| **Top 2 Technology Selections** | |
| * Python Pandas * Python Matplotlib * SQL * Colaboratory * NumPy * Seaborn * SKlearn * Tableau | |