Data Wrangling

The Data

For my initial capstone project ("House Prices: Advanced Regression Techniques"), the primary data source is the Kaggle.

Analyzing the Dataset

Initial data shape: 1460 rows, 81 columns dtypes: float64(3), int64(35), object(43)

Null Values: Yes, some of the qualitative fields have null values (e.g.

LotFrontage, Alley, MasVnrType, MasVnrArea, etc.). Fill the null values with

empty strings (for now).

Outliers: Drop the outliers

What kind of cleaning steps did you perform?

Now that I have got a general idea about my data set, it's also a good idea to take a closer look at the data itself. With the help of the head() and tail() functions of the Pandas library, I can easily check out the first and last lines of your DataFrame, respectively. Let us look at some sample data

train.describe()
train.head()
train.tail()
train.shape
pd.isnull(train).any()

How did you deal with missing values, if any?
 # Visualising missing values
 categorical_features = train.select_dtypes(include=[np.object])
 Categorical features.columns

```
df = train
#for back fill
df.fillna(method='bfill',inplace=True)
df = train
#for front fill
df.fillna(method='ffill',inplace=True)

train['LotFrontage'].fillna(0, inplace=True)
```

• Were there outliers, and how did you handle them?

```
#Drop observations where GrLivArea is greater than 4000 sq.fttrain.drop(train[train.GrLivArea>4000].index, inplace = True) train.reset_index(drop = True, inplace = True)
```

#Drop observations where TotlaBsmtSF is greater than 3000 sq.ft train.drop(train[train.TotalBsmtSF>3000].index, inplace = True) train.reset index(drop = True, inplace = True)

#Drop observations where YearBulit is less than 1893 sq.ft train.drop(train[train.YearBuilt<1900].index, inplace = True) train.reset index(drop = True, inplace = True)