A picture containing text, tree

Description automatically generated

Chart, box and whisker chart

Description automatically generated

Chart

Description automatically generated

Chart

Description automatically generated

Regression OLS

Chart, scatter chart

Description automatically generated

Residuals (ytrain- pred(xtrain))

Chart, histogram

Description automatically generated

**Training**

lr1.rsquared

Out[220]: 0.8401739488058451

lr1.rsquared\_adj

Out[221]: 0.8353209310570346

**Test**

r2=metrics.r2\_score(y\_test, predictions\_OLS)

metrics.r2\_score(y\_test, predictions\_OLS)

Out[223]: 0.8090660300839524

1 - (1-r2)\*(len(y\_test)-1)/(len(y\_test)-X\_test\_lm1.shape[1]-1)

Out[224]: 0.793942547318324