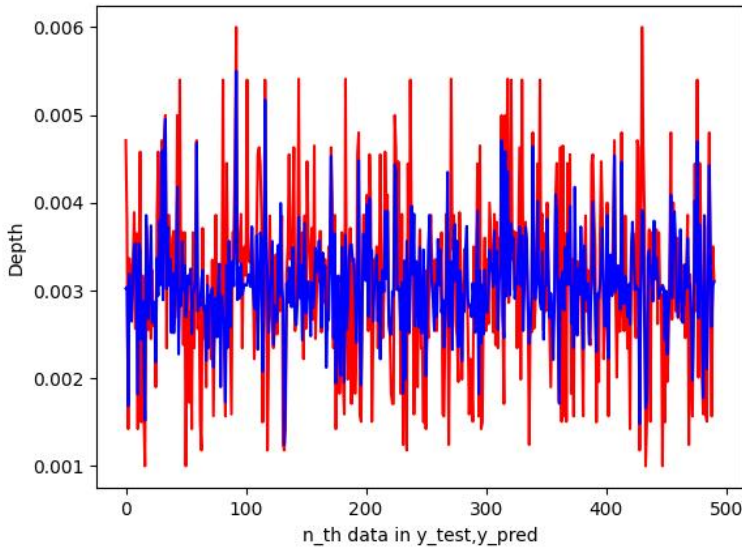
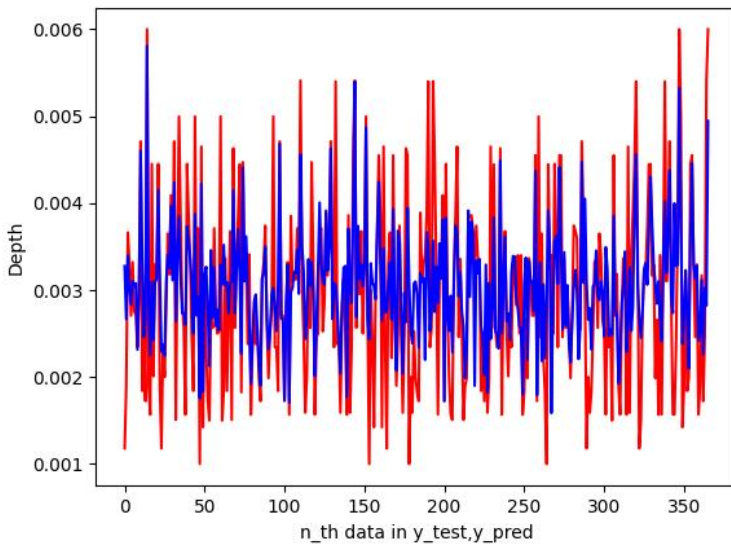


The graphs shows the comparison between the predicted depths(**blue**) and accurate depths(**red**) of testing set(various datasets) in training the model by **RANDOM FOREST REGRESSION** and **LINEAR REGRESSION** in machine learning from the data collected from ARAQUS analysis of *single* and *multiple cracks* at a time in the given model.



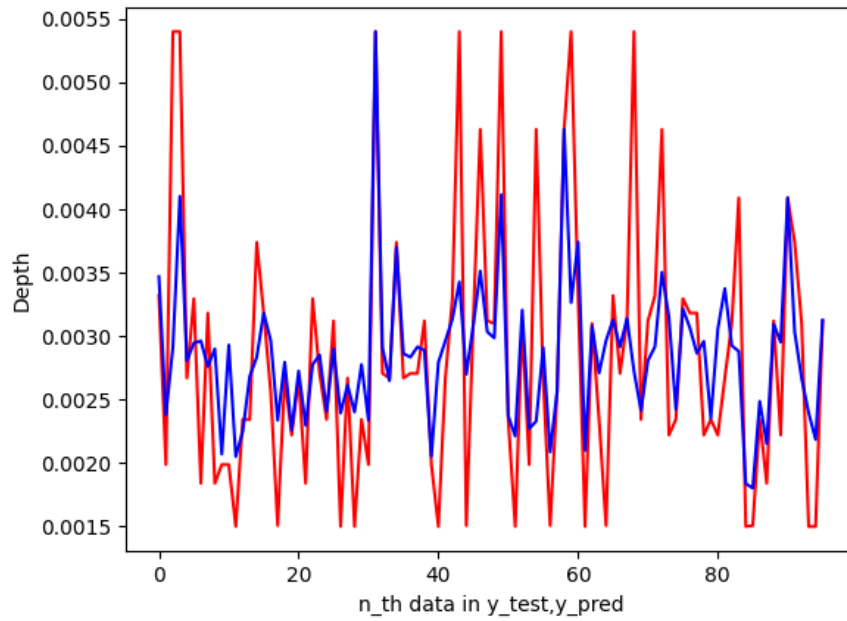
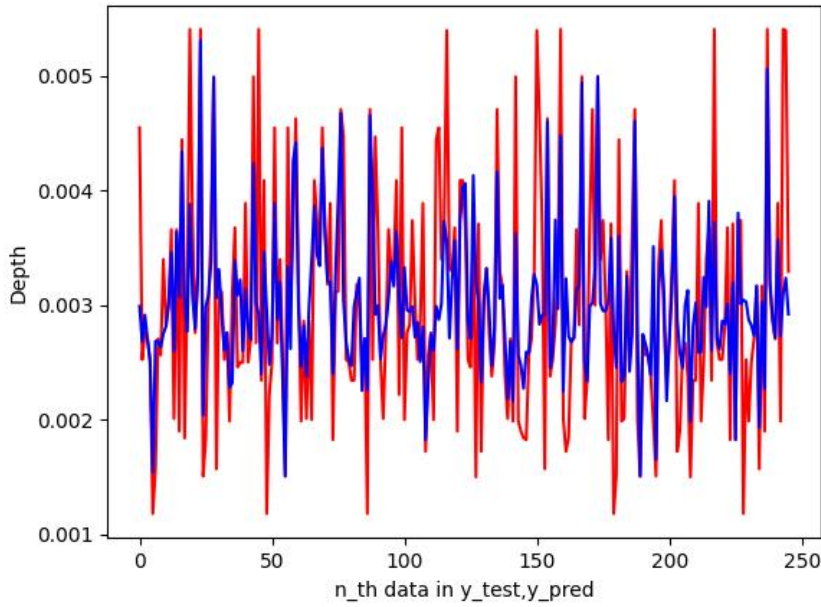
Graph for No. of datasets: 97

Root Mean Square Error : 0.0007535

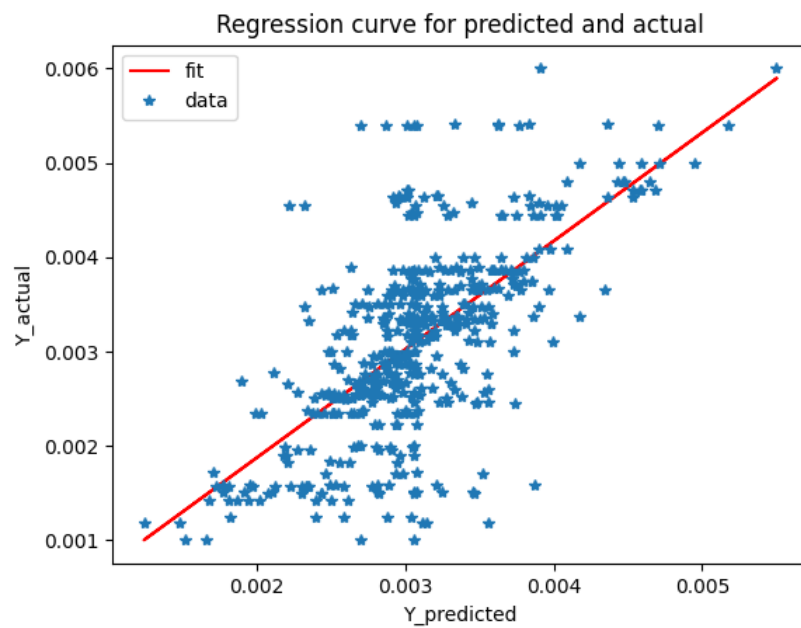


Graph for No. of datasets: 73

Root Mean Square Error : 0.0007543



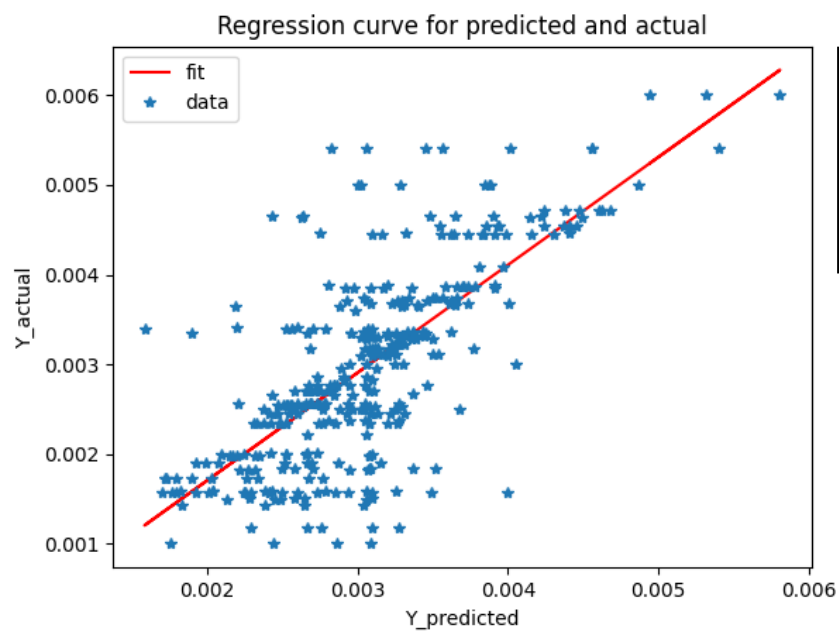
No. of Datasets	RMS Error
97	0.0007535
73	0.0007543
49	0.0007195
25	0.0007631



No. of Datasets: 97

Equation of Regression line:

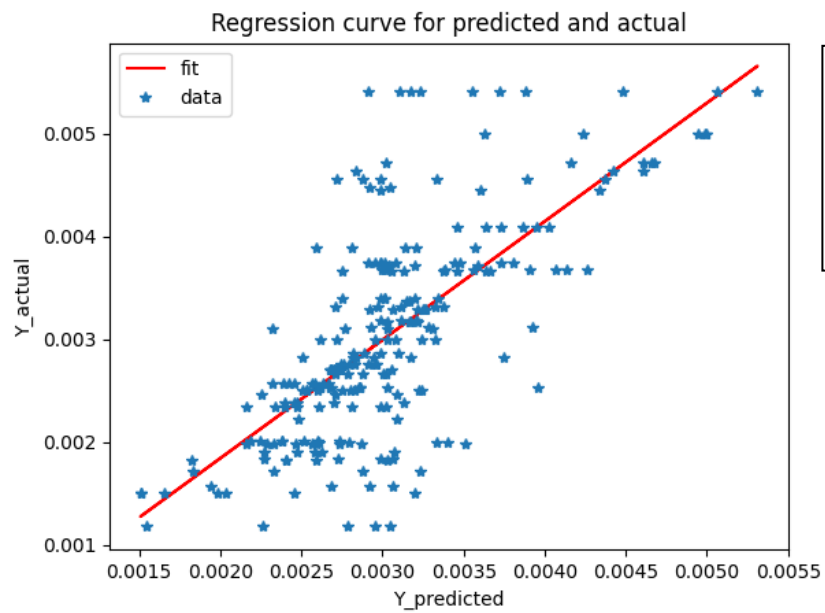
$$Y=1.15014X \pm 0.000430$$



No. of Datasets: 73

Equation of Regression line:

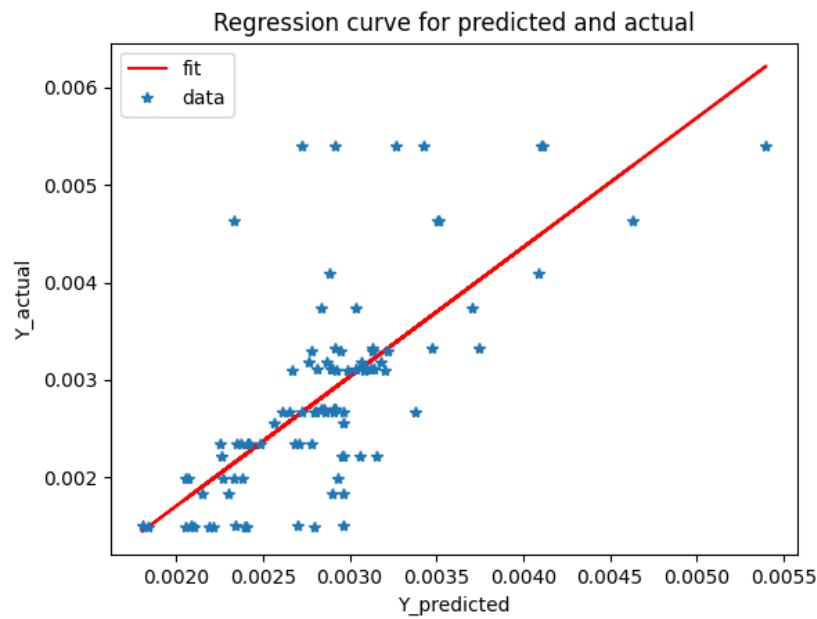
$$Y=1.20226X \pm 0.0007$$



No. of Datasets: 49

Equation of Regression line:

$$Y=1.15053X \pm 0.000457$$



No. of Datasets: 25

Equation of Regression line:

$$Y=1.32593X \pm 0.000943$$