```
Training loading ..........

Preprocessing start  ..........

making Score matrix
25
Testing loading ..........

Preprocessing start  ..........

making Score matrix
Converting to numpy.......

Predict Model Uing only ngram (1,2) .......

SVR Model

Results of sklearn.metrics:
MAE: 0.12402910431039431
MSE: 0.023506060305264188
RMSE: 0.15331686242962378
R-Squared: 0.20334252685272003
pearson corr. , p valve = (0.48236779784231054, 1.52440461560441e-45)
SpearmanrResult(correlation=0.4652439668311946, pvalue=4.396554825127946e-42)


MLP Model

Results of sklearn.metrics:
MAE: 0.14036184210526315
MSE: 0.02953804721051492
RMSE: 0.17186636439546546
R-Squared: -0.001091027030333258
pearson corr. , p valve = (nan, nan)
SpearmanrResult(correlation=nan, pvalue=nan)


Decision Tree Model

Results of sklearn.metrics:
MAE: 0.12625836576588936
MSE: 0.02444090038830631
RMSE: 0.15633585765366279
R-Squared: 0.17165932138649642
pearson corr. , p valve = (0.4186569584914229, 1.3149113986100294e-33)
SpearmanrResult(correlation=0.41022593419610837, pvalue=3.2843158759596955e-32)




Predicting Model using 25 features
SVR Model

Results of sklearn.metrics:
MAE: 0.14076146201732487
MSE: 0.02999460494882235
RMSE: 0.1731895058853808
R-Squared: -0.016564489168281682
pearson corr. , p valve = (0.06913582376303312, 0.05676890886272658)
```

```
SpearmanrResult(correlation=0.0913803048546718, pvalue=0.0117251703338645)


MLP Model

Results of sklearn.metrics:
MAE: 0.14057614558843382
MSE: 0.029666323779595882
RMSE: 0.1722391470589537
R-Squared: -0.0054385223596613574
pearson corr. , p valve = (-0.023952098259347854, 0.5096893358103123)
SpearmanrResult(correlation=-0.00027158786357867423, pvalue=0.9940359984187079)


Decision Tree Model

Results of sklearn.metrics:
MAE: 0.12294660088680373
MSE: 0.023913639720471332
RMSE: 0.1546403560538818
R-Squared: 0.18952901736584737
pearson corr. , p valve = (0.45939316110641876, 6.040504128124103e-41)
SpearmanrResult(correlation=0.4695248332371346, pvalue=6.257763886607928e-43)




Predicting Model using N Gram + 25 features
Concating all features....
SVR Model

Results of sklearn.metrics:
MAE: 0.1406833644780333
MSE: 0.029921686972457985
RMSE: 0.1729788627909722
R-Squared: -0.014093183894533068
pearson corr. , p valve = (0.07226279554720824, 0.04642892900607918)
SpearmanrResult(correlation=0.0929595922031184, pvalue=0.01034571913628787)


Decision Tree Model

Results of sklearn.metrics:
MAE: 0.11679116312436015
MSE: 0.022180375789816898
RMSE: 0.14893077516019615
R-Squared: 0.24827206683310543
pearson corr. , p valve = (0.5169189840826522, 3.7609705107400384e-53)
SpearmanrResult(correlation=0.5352852096041368, pvalue=1.44978343523106e-57)


MLP Model

Results of sklearn.metrics:
MAE: 0.1402523607473058
MSE: 0.029520596489741674
RMSE: 0.17181558861099208
R-Squared: -0.0004995945684374004
pearson corr. , p valve = (0.01921821431439259, 0.5968148821341794)
```

```
SpearmanrResult(correlation=-0.04059884044193782, pvalue=0.26363044106913475)
```