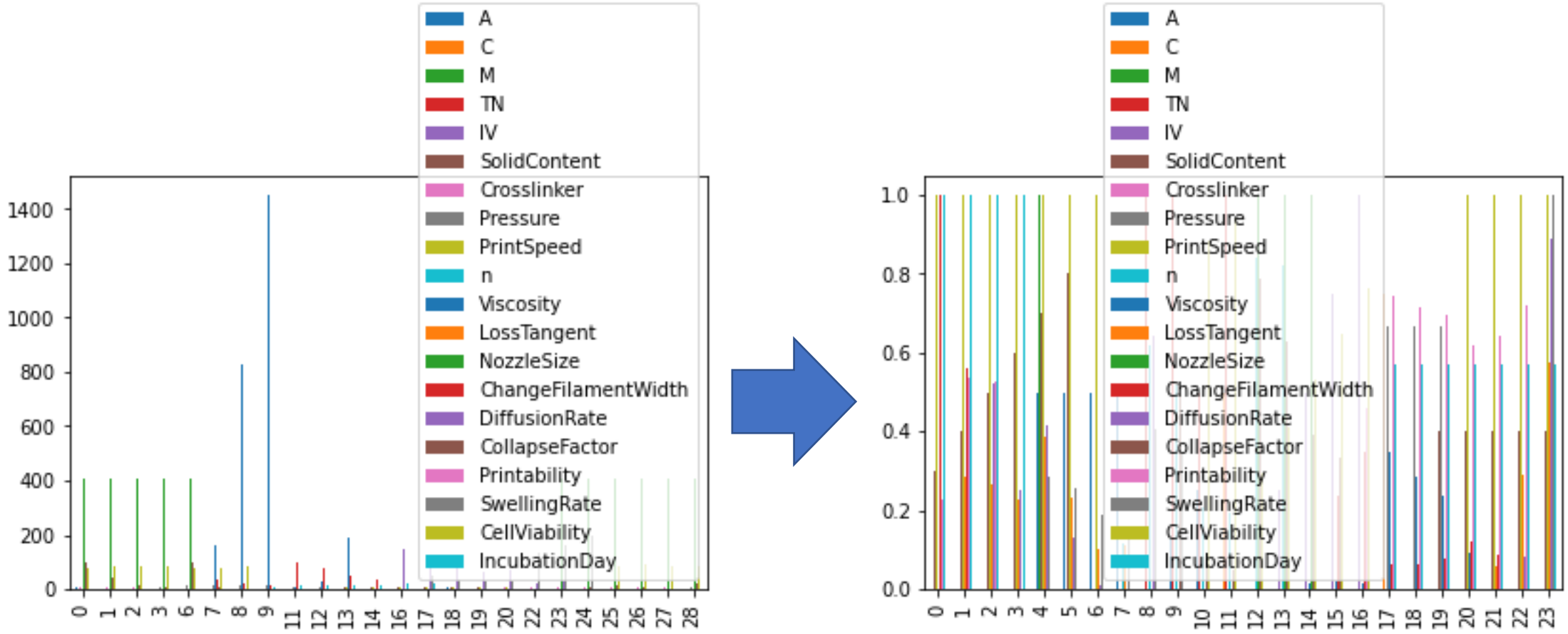
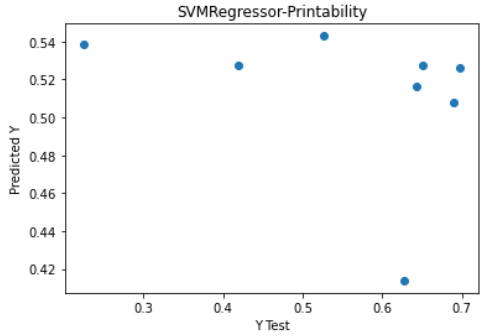
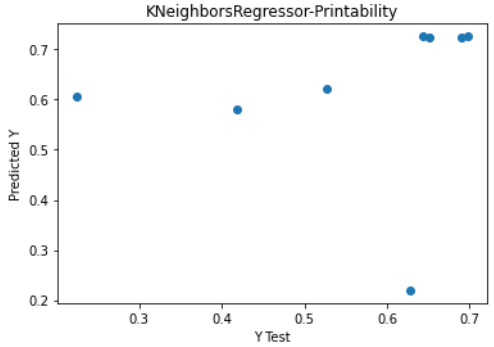
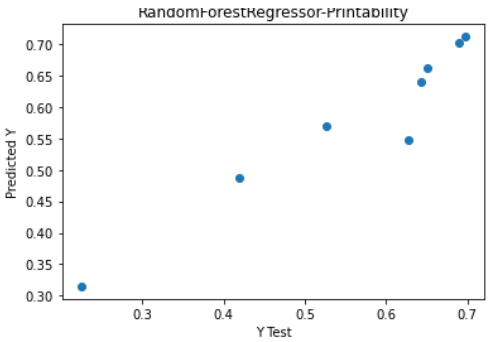
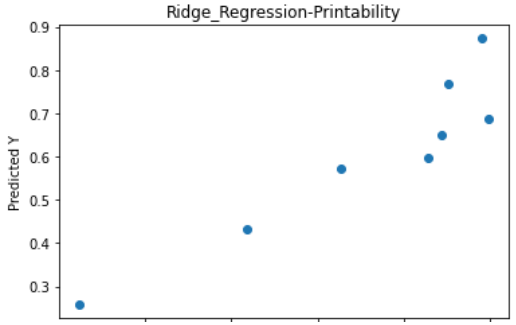
Feature Scaling- Normalize The Data

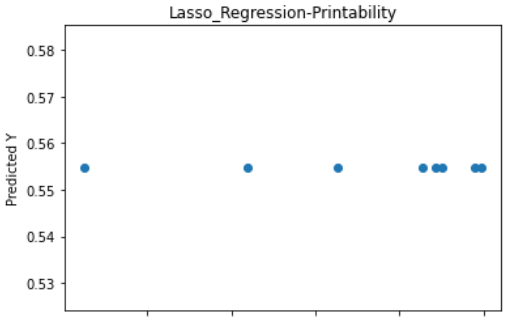


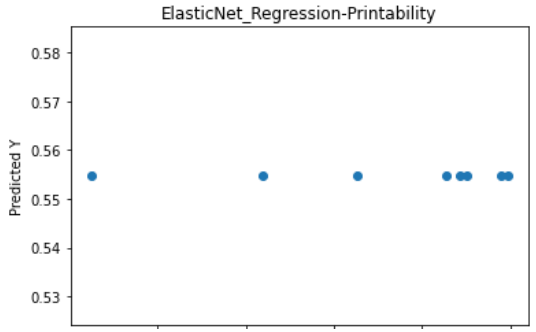






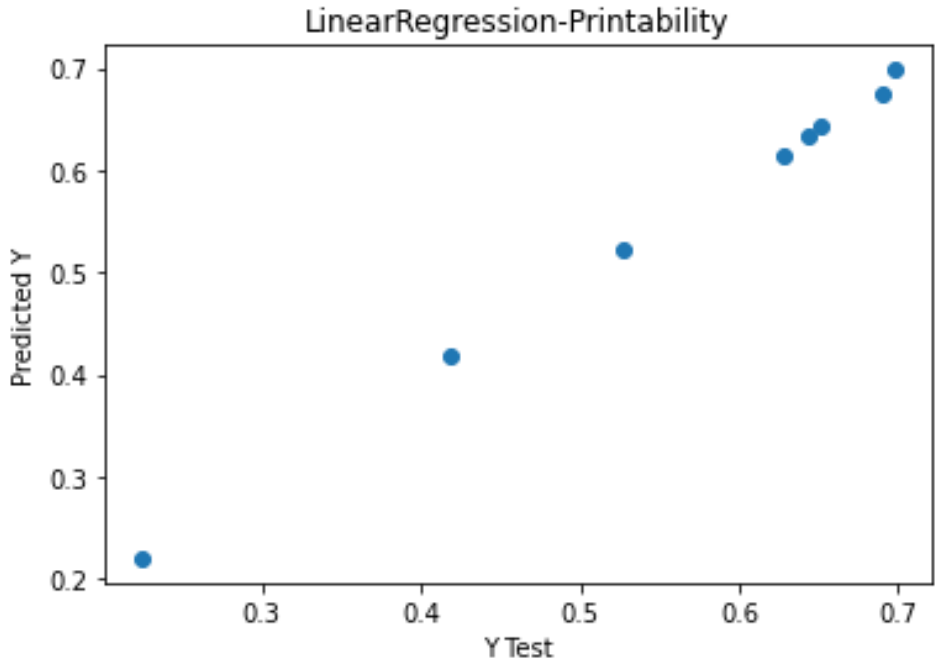






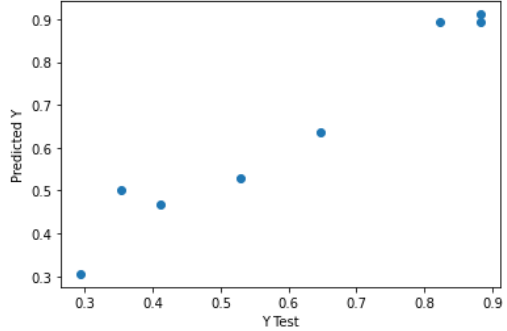
Impact on Dependent Variable- Printability

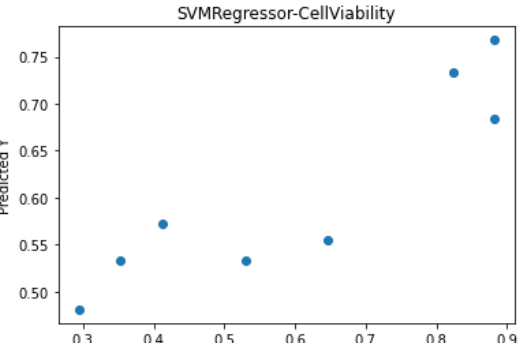
Best Model

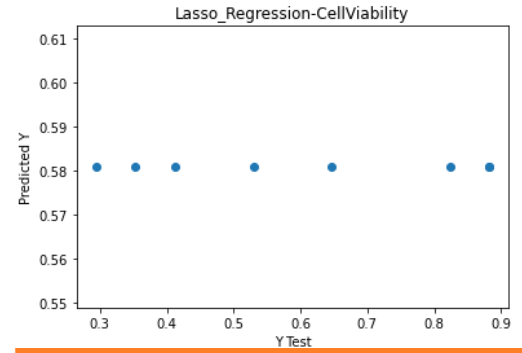


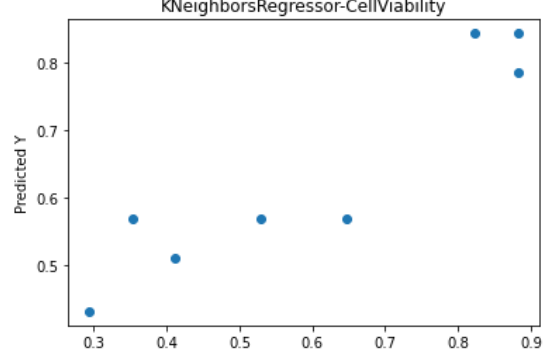
regression_dataframe_printability - DataFrame

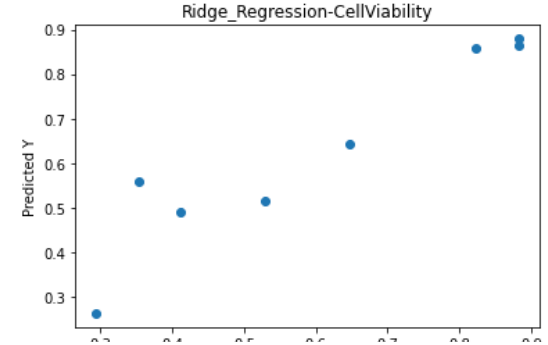
Index	Regressor	Mean_Absolute_Error	Mean_Squared_Error	Root_Mean_Squared_Error	Root_Mean_Squared_Log_Error	R_Square	Adjusted_R_Squared	Prediction
0	LinearRegression	0.00698843	7.40436e-05	0.00860486	-4.75543	0.996868	1.00169	[0.69844642 0.22003167 0.52271386 0.6424104 0… 0.63385605 0.61521423]
1	RandomForestRegressor	0.0401744	0.00270437	0.0520036	-2.95644	0.885615	1.06159	[0.71178295 0.31488372 0.57069767 0.66139535 0… 0.64093023 0.54744186]
2	Ridge_Regression	0.0554656	0.00647642	0.0804762	-2.51979	0.726071	1.1475	[0.6860856 0.25849881 0.57369894 0.76766215 0… 0.64967598 0.59723106]
3	Lasso_Regression	0.128755	0.0236711	0.153854	-1.87175	-0.00120…	1.53911	[0.55474806 0.55474806 0.55474806 0.55474806 0… 0.55474806 0.55474806]
4	ElasticNet_Regression	0.128755	0.0236711	0.153854	-1.87175	-0.00120…	1.53911	[0.55474806 0.55474806 0.55474806 0.55474806 0… 0.55474806 0.55474806]
5	SVMRegressor	0.157017	0.0312585	0.176801	-1.73273	-0.322123	1.71191	[0.5263088 0.53827775 0.54295679 0.52728509 0… 0.51667405 0.41394465]
6	KNeighborsRegressor	0.158269	0.0453231	0.212892	-1.54697	-0.917006	2.03223	[0.72609819 0.60723514 0.62273902 0.72351421 0… 0.72609819 0.21963824]

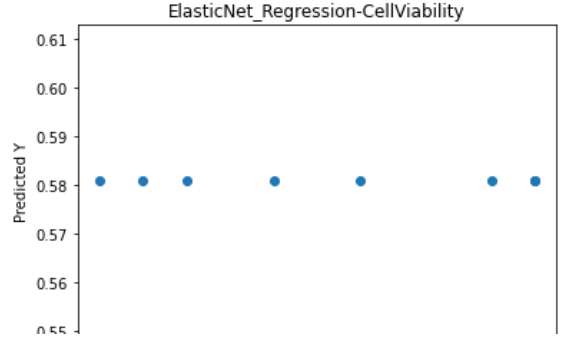






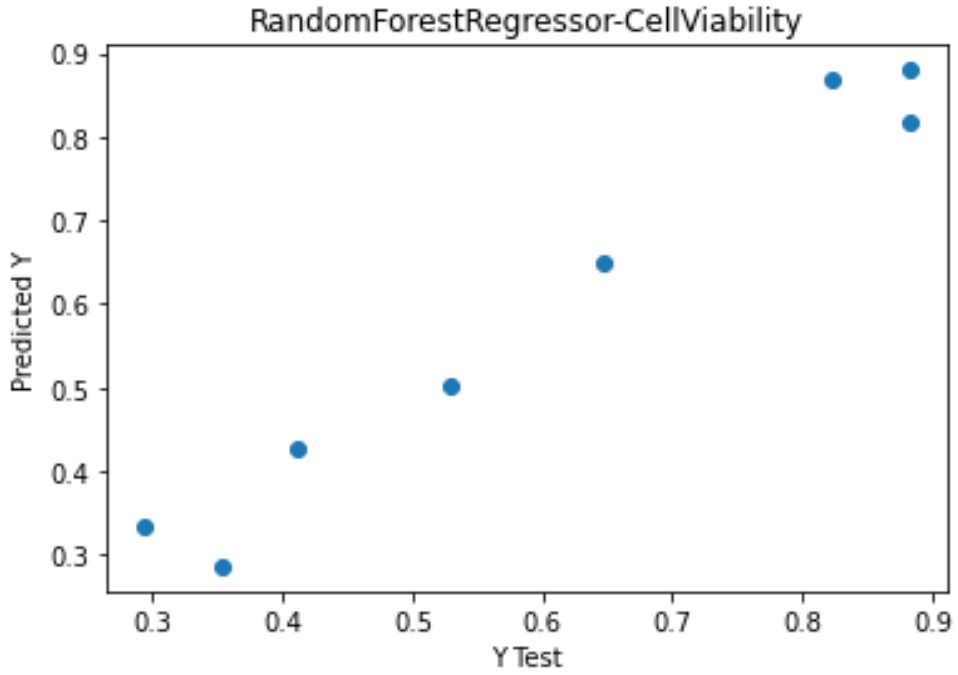






Impact on Dependent Variable- CellViability

Best Model



regression_dataframe_cellViability - DataFrame

Index	Regressor	Mean_Absolute_Error	Mean_Squared_Error	Root_Mean_Squared_Error	Root_Mean_Squared_Log_Error	R_Squared	Adjusted_R_Squared	Prediction
0	LinearRegression	0.0422914	0.00393371	0.0627193	-2.76909	0.922598	1.04168	[0.89258015 0.30560711 0.4672297 0.52956629 0… 0.89482408 0.9113987]
1	RandomForestRegressor	0.0327941	0.00164619	0.0405733	-3.20464	0.967609	1.01744	[0.88 0.33411765 0.42705882 0.50117647 0… 0.86823529 0.81882353]
2	KNeighborsRegressor	0.0906863	0.0117743	0.10851	-2.22092	0.768322	1.12475	[0.84313725 0.43137255 0.50980392 0.56862745 0… 0.84313725 0.78431373]
3	SVMRegressor	0.128485	0.0203411	0.142622	-1.94756	0.599756	1.21552	[0.76803109 0.48085101 0.57245282 0.53272581 0… 0.73294202 0.68367483]
4	Ridge_Regression	0.0488734	0.00647326	0.0804565	-2.52004	0.872628	1.06858	[0.87917391 0.2633256 0.49149567 0.51683841 0… 0.85778169 0.86345966]
5	Lasso_Regression	0.205882	0.0513084	0.226514	-1.48495	-0.00957447	1.54362	[0.58088235 0.58088235 0.58088235 0.58088235 0… 0.58088235 0.58088235]