	Notebook	CRC_modelling_with_balancing_6th_June.ipynb		
	Top Model by metrics	#1	#2	#3
	Model description	Voting Classifier using balanced data (Random UnderSampler)	Voting Classifier on balanced data (oversampled followed by undersampled - SMOTETomek)	Voting Classifier on balanced data (Oversampling using SMOTE)
cs	Balanced Accuracy Score	0.929	0.886	0.864
Metrics	Weighted Avg Precision	0.977	0.963	0.957
ance	Weighted Avg Recall	0.976	0.962	0.955
erformance	Class 1 Recall	0.860	0.770	0.730
Pe	Weighted Avg F1 Score	0.975	0.960	0.950
		voting_classifiers(X_train_new_under_sampled,y_train_new_unk # Recommended model no.1, since class 1 recall, balanced acc	<pre>voting_classifiers(X_smt,y_smt,X_test,y_test) # Recommended model no.2</pre>	voting_classifiers(X_sm,y_sm,X_test,y_test) # Recommended model no.3
		Voting Classifier Accuracy: 0.976 Weighted Precision: 0.977 Weighted Recall: 0.976 Weighted Accuracy: 0.985714285714286 precision recall f1-score support 0 0.97 1.00 0.99 349 1 1.00 0.86 0.92 70 accuracy 0.98 419	Voting Classifier	Voting Classifier Accuracy: 0.955 Weighted_Precision: 0.957 Weighted_Precision: 0.955 Weighted_Recall: 0.955 Balanced Accuracy: 0.864287142857143
	Snapshots from notebook	macro avg 0.99 0.93 0.95 419 weighted avg 0.98 0.98 0.98 419	accuracy 0.98 0.89 0.92 419 macro avg 0.98 0.89 0.92 419 weighted avg 0.96 0.96 0.96 419	accuracy 0.95 419 macro avg 0.97 0.86 0.91 419 weighted avg 0.96 0.95 0.95 419

