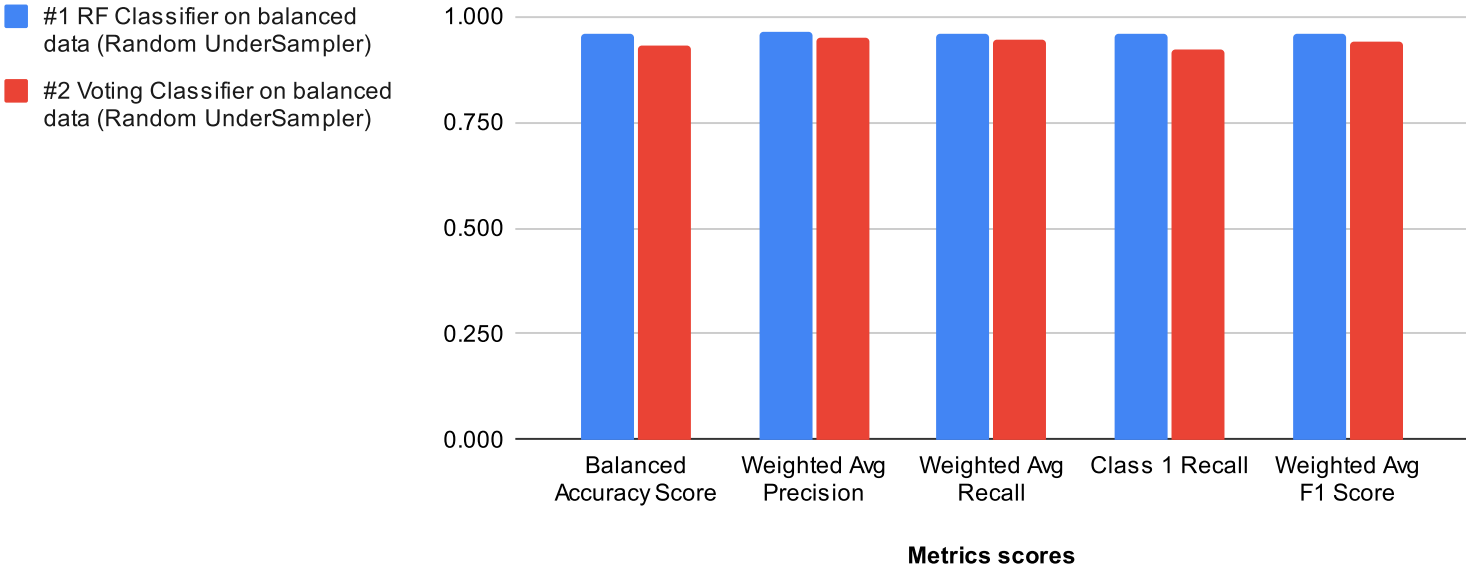


		Notebook	LC_models_full_features_with_balancing.ipynb	
		Top Model by metrics	#1	#2
		Model description	RandomForest Classifier on balanced data (Random UnderSampler)	Voting Classifier on balanced data (Random UnderSampler)
	Performance Metrics	Balanced Accuracy Score	0.959	0.933
		Weighted Avg Precision	0.964	0.949
		Weighted Avg Recall	0.960	0.943
		Class 1 Recall	0.960	0.920
		Weighted Avg F1 Score	0.960	0.940
		Snapshots from notebook	<div>random_forest(X_rus,y_rus,X_test,y_test,class_ratio='balanced') # Recommended model no.1, since it has best class 1 recall, class 0 prec</div> <div>Random Forest</div> <div>Accuracy: 0.960 Precision: 0.964 Recall: 0.960 F_score: 0.961</div> <div>Balanced Accuracy: 0.9597570850202428</div> <div>precision recall f1-score support</div> <div>0 0.99 0.96 0.98 247</div> <div>1 0.83 0.96 0.89 50</div> <div>accuracy 0.96 0.96 0.96 297</div> <div>macro avg 0.91 0.96 0.93 297</div> <div>weighted avg 0.96 0.96 0.96 297</div>	<div>voting_classifiers(X_rus,y_rus,X_test,y_test) # Recommended model no.2</div> <div>Voting Classifier</div> <div>Accuracy: 0.943 Precision: 0.949 Recall: 0.943 F_score: 0.945</div> <div>Balanced Accuracy: 0.9336842105263158</div> <div>precision recall f1-score support</div> <div>0 0.98 0.95 0.96 247</div> <div>1 0.78 0.92 0.84 50</div> <div>accuracy 0.94 0.94 0.94 297</div> <div>macro avg 0.88 0.93 0.90 297</div> <div>weighted avg 0.95 0.94 0.94 297</div>

Metrics comparison for LC balanced data models



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