Evaluation during the learning phase

Parameter tuning: Dataset 2: Only requirements

Models						
tfidf	max features	max df	min df	smooth idf	norm	use idf
	500	0.9	1	TRUE	L2	TRUE
svm	c	gamma	kernel			
	1	0.1	linear			
decision tree	max depth	min sample split	min sample lead	max features	criterion	
	20	10	1	Sqrt	gini	

Evaluation on multidisciplinary data

DAMIR + 44 rail requirements from ReqEval tuning.

tfidf	max features	max_df	min_df	smooth_idf	norm	use_idf
	1000	0.9	3	true	none	true
decision tree	max_depth	min_samples_split	min_samples_leaf	max_features	criterion	
	none	10	1	sqrt	gini	
svm	c	gamma	kernel			
	1	0.1	rbf			

SVC
{'SVC_Accuracy': '0.6133', 'SVC_Precision': '0.6299', 'SVC_Recall': '0.6133', 'SVC_F1-Score': '0.6040'}
Naive
Bayes
{'NB_Accuracy': '0.6043', 'NB_Precision': '0.6062', 'NB_Recall': '0.6043', 'NB_F1-Score': '0.6019'}
Decision Tree
{'DTree_Accuracy': '0.5788', 'DTree_Precision': '0.5793', 'DTree_Recall': '0.5788', 'DTree-F1-Score': '0.5770'}