Language difficulty project

Group Nestle

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No data cleaning

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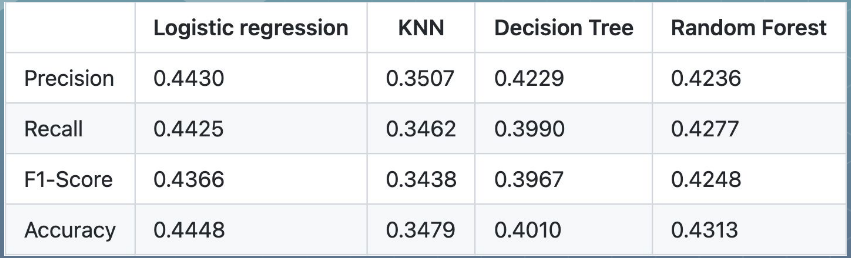
Final Score

No data cleaning



	Logistic regression	KNN	Decision Tree	Random Forest
Precision	0.4430	0.3507	0.4229	0.4236
Recall	0.4425	0.3462	0.3990	0.4277
F1-Score	0.4366	0.3438	0.3967	0.4248
Accuracy	0.4448	0.3479	0.4010	0.4313

Logistic Regression is the best (slightly better than Random Forest)

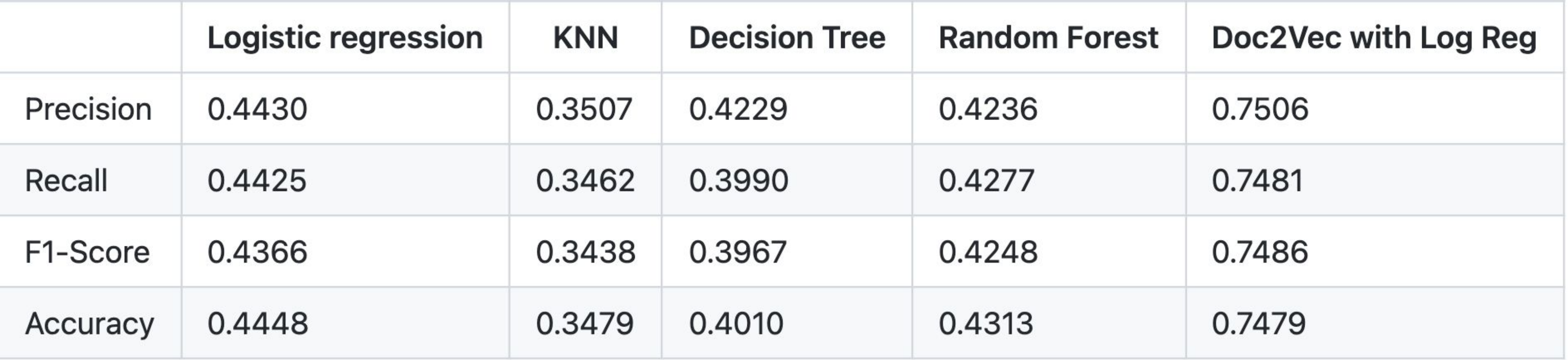
Others Methods

TF-IDF with dimensionality reduction

Standardisation

Spacy & Nltk

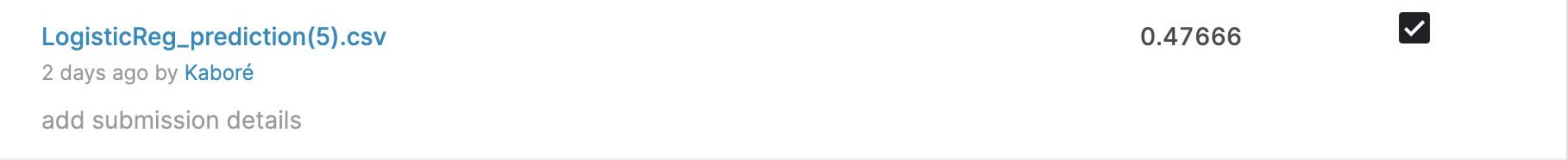
Best Method



	Logistic regression	KNN	Decision Tree	Random Forest	Doc2Vec with Log Reg
Precision	0.4430	0.3507	0.4229	0.4236	0.7506
Recall	0.4425	0.3462	0.3990	0.4277	0.7481
F1-Score	0.4366	0.3438	0.3967	0.4248	0.7486
Accuracy	0.4448	0.3479	0.4010	0.4313	0.7479

DOC2VEC + Log Reg + Nltk

Final score on Kaggle



LogisticReg_prediction(5).csv

2 days ago by Kaboré

add submission details

0.47666

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