

Table 1

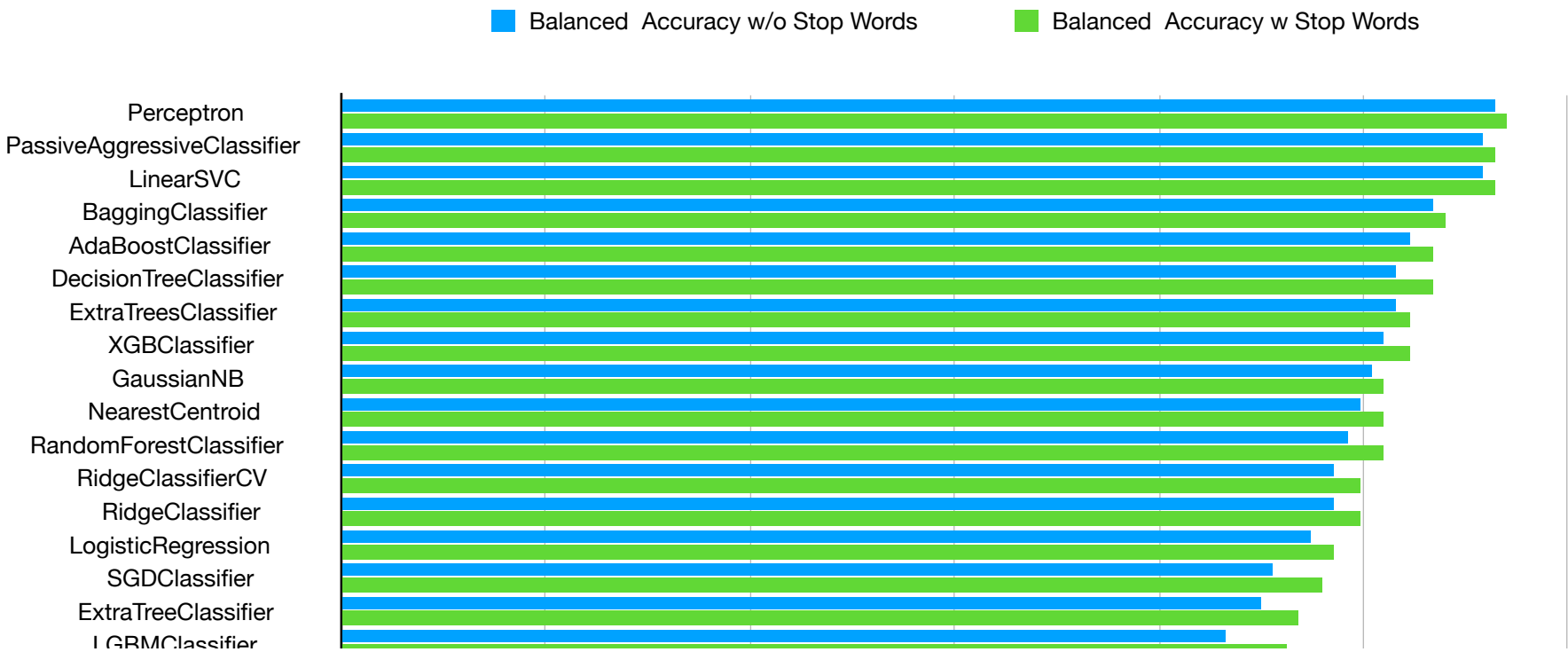
Model	Accuracy	Balanced Accuracy	ROC AUC	F1 Score	Time Taken
Perceptron	0.97	0.94	0.94	0.97	0.61
PassiveAggressiveClassifier	0.97	0.93	0.93	0.97	0.72
LinearSVC	0.98	0.93	0.93	0.98	4.45
BaggingClassifier	0.96	0.89	0.89	0.96	2.64
AdaBoostClassifier	0.95	0.87	0.87	0.95	3.72
DecisionTreeClassifier	0.95	0.86	0.86	0.95	0.74
ExtraTreesClassifier	0.96	0.86	0.86	0.96	2.72
XGBClassifier	0.95	0.85	0.85	0.95	0.93
GaussianNB	0.88	0.84	0.84	0.89	0.76
NearestCentroid	0.95	0.83	0.83	0.95	0.60
RandomForestClassifier	0.95	0.82	0.82	0.94	1.57
RidgeClassifierCV	0.95	0.81	0.81	0.94	1.51
RidgeClassifier	0.95	0.81	0.81	0.94	1.12
LogisticRegression	0.94	0.79	0.79	0.94	1.03
SGDClassifier	0.93	0.76	0.76	0.92	0.67
ExtraTreeClassifier	0.92	0.75	0.75	0.91	0.49
LGBMClassifier	0.92	0.72	0.72	0.90	0.74
LinearDiscriminantAnalysis	0.63	0.66	0.66	0.69	3.86
CalibratedClassifierCV	0.90	0.63	0.63	0.87	16.13
SVC	0.89	0.59	0.59	0.85	13.94
LabelSpreading	0.22	0.55	0.55	0.19	1.39
LabelPropagation	0.22	0.55	0.55	0.19	1.33
QuadraticDiscriminantAnalysis	0.21	0.54	0.54	0.18	5.32
KNeighborsClassifier	0.86	0.50	0.50	0.80	0.93
BernoulliNB	0.86	0.50	0.50	0.80	0.63
DummyClassifier	0.86	0.50	0.50	0.80	0.46

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Model	Accuracy	Balanced Accuracy	ROC AUC	F1 Score	Time Taken
Perceptron	0.97	0.95	0.95	0.97	0.60
PassiveAggressiveClassifier	0.97	0.94	0.94	0.97	0.76
LinearSVC	0.98	0.94	0.94	0.98	4.87
BaggingClassifier	0.96	0.90	0.90	0.96	2.72
AdaBoostClassifier	0.96	0.89	0.89	0.96	4.10
XGBClassifier	0.96	0.89	0.89	0.96	1.17
LGBMClassifier	0.95	0.87	0.87	0.95	0.90
DecisionTreeClassifier	0.95	0.87	0.87	0.95	0.72
GaussianNB	0.91	0.85	0.85	0.91	0.72
ExtraTreesClassifier	0.96	0.85	0.85	0.96	2.41
NearestCentroid	0.96	0.85	0.85	0.96	0.58
RidgeClassifierCV	0.95	0.83	0.83	0.95	1.55
RidgeClassifier	0.95	0.83	0.83	0.95	1.13
LogisticRegression	0.95	0.81	0.81	0.94	0.81
RandomForestClassifier	0.95	0.80	0.80	0.94	1.35
ExtraTreeClassifier	0.93	0.78	0.78	0.92	0.50
LinearDiscriminantAnalysis	0.85	0.77	0.77	0.86	4.34
SGDClassifier	0.93	0.76	0.76	0.92	0.71
CalibratedClassifierCV	0.90	0.64	0.64	0.87	17.55
SVC	0.89	0.60	0.60	0.86	14.96
LabelSpreading	0.18	0.52	0.52	0.12	1.53
LabelPropagation	0.18	0.52	0.52	0.12	1.35
QuadraticDiscriminantAnalysis	0.18	0.52	0.52	0.11	4.79
BernoulliNB	0.86	0.51	0.51	0.80	0.68
KNeighborsClassifier	0.86	0.50	0.50	0.80	0.94
DummyClassifier	0.86	0.50	0.50	0.80	0.47

Table 1

Model	Difference			
Perceptron	1.06%			
PassiveAggressiveClassifier	1.08%			
LinearSVC	1.08%			
BaggingClassifier	1.12%			
AdaBoostClassifier	2.30%			
XGBClassifier	3.49%			
LGBMClassifier	1.16%			
DecisionTreeClassifier	2.35%			
GaussianNB	1.19%			
ExtraTreesClassifier	2.41%			
NearestCentroid	3.66%			
RidgeClassifierCV	2.47%			
RidgeClassifier	2.47%			
LogisticRegression	2.53%			
RandomForestClassifier	5.26%			
ExtraTreeClassifier	4.00%			
LinearDiscriminantAnalysis	6.94%			
SGDClassifier	15.15%			
CalibratedClassifierCV	1.59%			
SVC	1.69%			
LabelSpreading	-5.45%			
LabelPropagation	-5.45%			
QuadraticDiscriminantAnalysis	-3.70%			
BernoulliNB	2.00%			
KNeighborsClassifier	0.00%			
DummyClassifier	0.00%			
	1.94%			



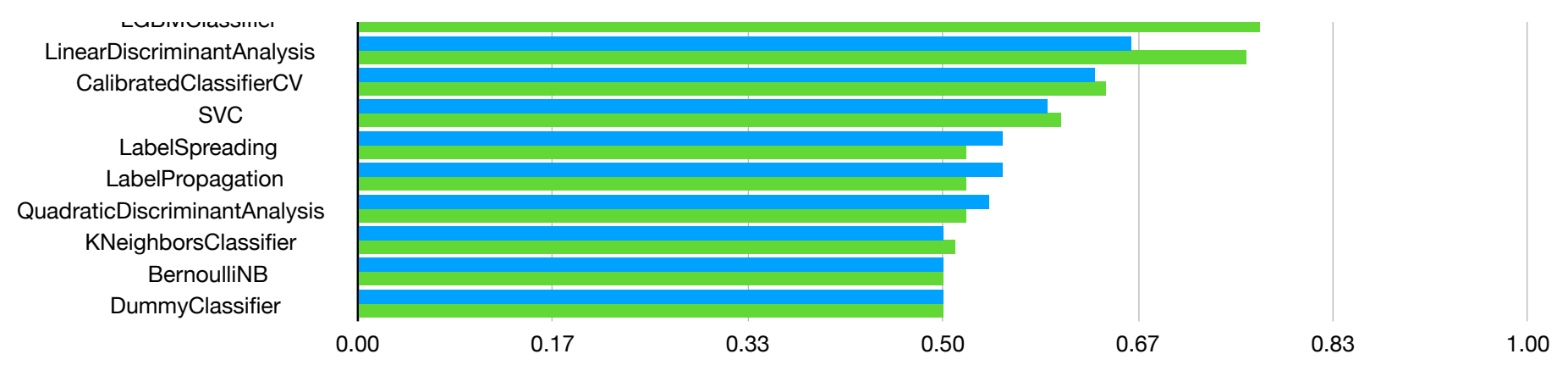


Table 1

Text	Prediction	GPT-4		
Will ü b going to esplanade fr home?	ham	Ham		
Hope you are having a great new semester. Do wish you the very best. You are made for greatness.	ham	Ham		
Yeah my usual guy's out of town but there're definitely people around I know	ham	Ham		
What I'm saying is if you haven't explicitly told nora I know someone I'm probably just not gonna bother	ham	Ham		
Yar lor he wan 2 go c horse racing today mah, so eat earlier lor. I ate chicken rice. U?	ham	Ham		
Would you like to see my XXX pics they are so hot they were nearly banned in the uk!	spam	Spam		
Nah can't help you there, I've never had an iphone	ham	Ham		
WELL DONE! Your 4* Costa Del Sol Holiday or £5000 await collection. Call 09050090044 Now toClaim. SAE, TCs, POBox334, Stockport, SK38xh, Cost£1.50/pm, Max10mins	spam	Spam		
Well I'm going to be an aunty!	ham	Ham		
This weeks SavaMob member offers are now accessible. Just call 08709501522 for details! SavaMob, POBOX 139, LA3 2WU. Only £1.50/week. SavaMob - offers mobile!	spam	Spam		
Sorry, I'll call you later. I am in meeting sir.	ham	Ham		
100 dating service cal;l 09064012103 box334sk38ch	spam	Spam		
I will reach ur home in <#> minutes	ham	Ham		
Haha... Hope ü can hear the receipt sound... Gd luck!	ham	Ham		
Al he does is moan at me if n e thin goes wrong its my fault&al de arguments r my fault&fed up of him of himso y bother? Hav 2go, thanx.xx	ham	Ham		
Not thought bout it... Drink in tap & spile at seven. Is that pub on gas st off broad st by canal. Ok?	ham	Ham		
My sister in law, hope you are having a great month. Just saying hey. Abiola	ham	Ham		
CHEERS FOR CALLIN BABE.SOZI CULDNT TALKBUT I WANNATELL U DETAILS LATER WENWECAN CHAT PROPERLY X	ham	Ham		
Super msg da:)nalla timing.	ham	Ham		
Was the farm open?	ham	Spam		
I'm nt goin, got somethin on, unless they meetin 4 dinner lor... Haha, i wonder who will go tis time...	ham	Ham		
Babe ! How goes that day ? What are you doing ? Where are you ? I sip my cappuccino and think of you, my love ... I send a kiss to you from across the sea	ham	Ham		
Your account has been credited with 500 FREE Text Messages. To activate, just txt the word: CREDIT to No: 80488 T&Cs www.80488.biz	spam	Ham		
have * good weekend.	ham	Ham		
My phone	ham	Ham		
I've sent ü my part..	ham	Ham		
Okay, good, no problem, and thanx!	ham	Ham		
Thanks and ! Or bomb and date as my phone wanted to say!	ham	Ham		
Aight do you still want to get money	ham	Ham		
I noe la... U wana pei bf oso rite... K lor, other days den...	ham	Ham		