Сливкина Ксения

Сентимент классификация

Классические модели

Random Forest

	precision	recall	f1-score	support
-2	0.22	0.18	0.20	473
-1	0.43	0.39	0.41	2747
0	0.59	0.62	0.61	4199
1	0.20	0.25	0.23	524
2	0.31	0.10	0.16	105
accuracy			0.49	8048
macro avg	0.35	0.31	0.32	8048
weighted avg	0.48	0.49	0.48	8048

TF-IDF

SVM

	precision	recall	f1-score	support
-2	0.43	0.15	0.22	473
-1	0.47	0.41	0.44	2747
0	0.60	0.74	0.66	4199
1	0.40	0.19	0.26	524
2	0.44	0.11	0.18	105
accuracy			0.55	8048
macro avg	0.47	0.32	0.35	8048
weighted avg	0.53	0.55	0.53	8048

KNN

	precision	recall	f1-score	support
-2	0.47	0.14	0.22	473
-1	0.62	0.11	0.19	2747
0	0.55	0.94	0.69	4199
1	0.45	0.15	0.22	524
2	0.31	0.10	0.15	105
accuracy			0.55	8048
macro avg	0.48	0.29	0.29	8048
weighted avg	0.56	0.55	0.46	8048

Ансамблевые модели

Doc2Vec

Gradient Boosting

	precision	recall	f1-score	support
-2	0.78	0.57	0.66	4199
-1	0.45	0.47	0.46	4199
0	0.42	0.67	0.52	4199
1	0.68	0.56	0.62	4199
2	0.92	0.73	0.81	4199
accuracy			0.60	20995
macro avg	0.65	0.60	0.61	20995
weighted avg	0.65	0.60	0.61	20995

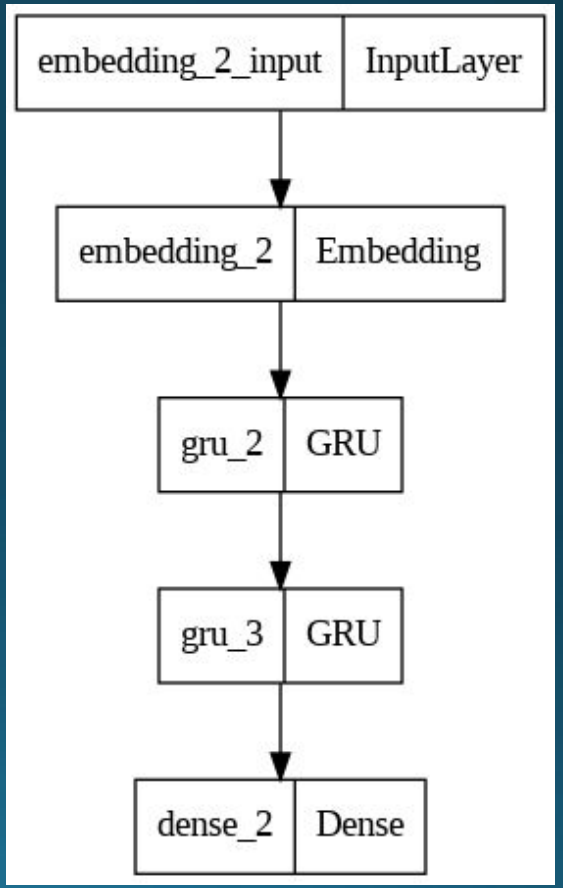
AdaBoost

	precision	recall	f1-score	support
-2	0.42	0.34	0.38	4199
-1	0.35	0.36	0.36	4199
0	0.36	0.47	0.41	4199
1	0.33	0.45	0.38	4199
2	0.74	0.38	0.50	4199
accuracy			0.40	20995
macro avg	0.44	0.40	0.40	20995
weighted avg	0.44	0.40	0.40	20995

Нейронные сети

- GRU

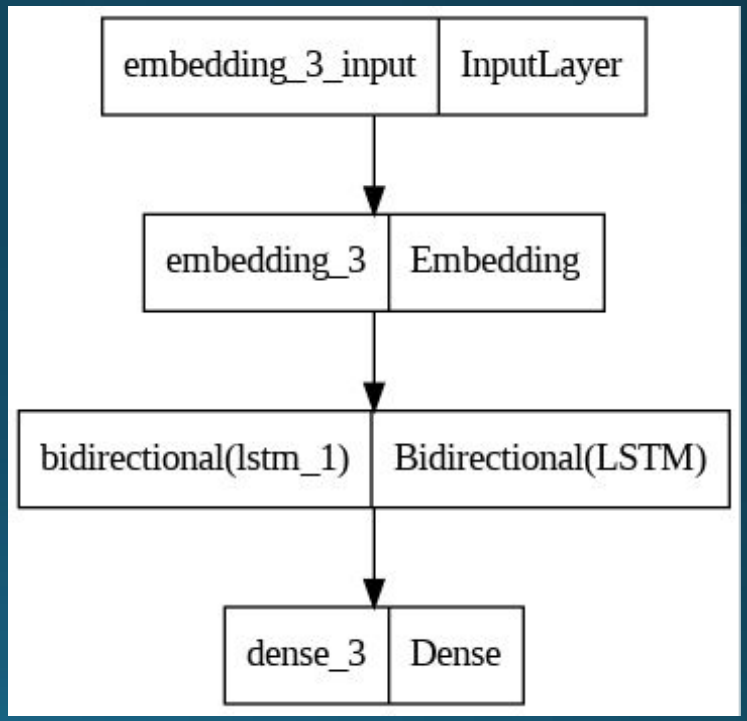
	precision	recall	f1-score	support
-2	0.82	0.73	0.77	4199
-1	0.61	0.62	0.62	4199
0	0.55	0.69	0.61	4199
1	0.79	0.75	0.77	4199
2	0.92	0.82	0.87	4199
accuracy			0.72	20995
macro avg	0.74	0.72	0.73	20995
weighted avg	0.74	0.72	0.73	20995



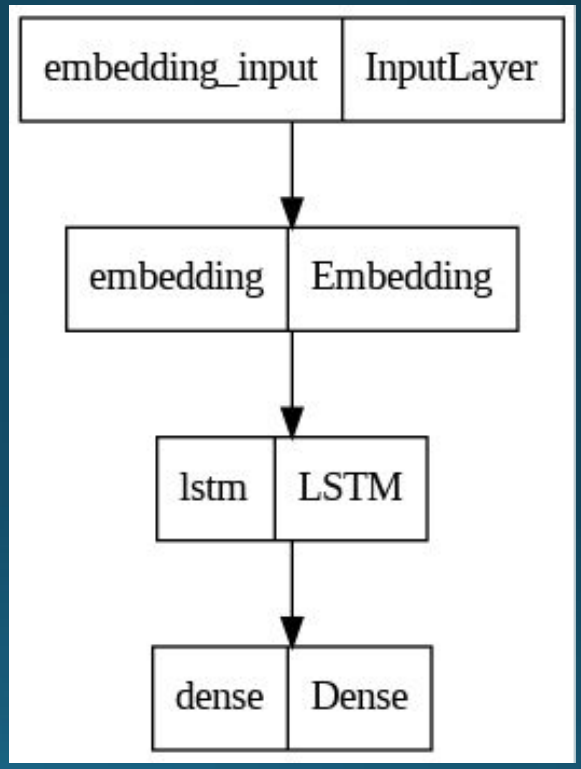
Нейронные сети

- LSTM Bidirectional

	precision	recall	f1-score	support
-2	0.85	0.72	0.78	4199
-1	0.57	0.66	0.61	4199
0	0.57	0.67	0.62	4199
1	0.80	0.75	0.77	4199
2	0.92	0.81	0.87	4199
accuracy			0.72	20995
macro avg	0.74	0.72	0.73	20995
weighted avg	0.74	0.72	0.73	20995



Нейронные сети

- LSTM

	precision	recall	f1-score	support
-2	0.86	0.73	0.79	4199
-1	0.61	0.64	0.63	4199
0	0.55	0.71	0.62	4199
1	0.80	0.75	0.78	4199
2	0.92	0.81	0.86	4199
accuracy			0.73	20995
macro avg	0.75	0.73	0.73	20995
weighted avg	0.75	0.73	0.73	20995