

SEMINAR KLASSIFIKATION & CLUSTERING

ERGEBNISSE BASELINE

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Letter – author – logistic regression

#Performance:

Seconds used for training: 1156

Seconds used for classification: 8

#Classification report:

	precision	recall	f1-score	support
Franz Kafka	0.907	0.911	0.909	280
Friedrich Schiller	0.774	0.861	0.815	266
Henrik Ibsen	0.999	0.977	0.988	897
James Joyce	0.952	0.911	0.931	682
Johann Wolfgang von Goethe	0.811	0.658	0.726	228
Virginia Woolf	0.968	0.986	0.977	1901
Wilhelm Busch	0.925	0.965	0.945	627
accuracy			0.945	4881
macro avg	0.905	0.895	0.899	4881
weighted avg	0.945	0.945	0.944	4881

Letter – author – pytorch simple

#Performance:

Seconds used for training: 550

Seconds used for classification: 1

#Classification report:

	precision	recall	f1-score	support
Franz Kafka	0.932	0.932	0.932	280
Friedrich Schiller	0.706	0.910	0.795	266
Henrik Ibsen	0.989	0.990	0.989	897
James Joyce	0.922	0.947	0.934	682
Johann Wolfgang von Goethe	0.830	0.601	0.697	228
Virginia Woolf	0.983	0.972	0.977	1901
Wilhelm Busch	0.974	0.955	0.965	627
accuracy			0.947	4881
macro avg	0.905	0.901	0.899	4881
weighted avg	0.949	0.947	0.946	4881

Letters – language – logistic regression

#Performance:

Seconds used for training: 848

Seconds used for classification: 8

#Classification report:

	precision	recall	f1-score	support
da	0.995	1.000	0.998	844
de	0.999	0.997	0.998	1448
en	0.998	0.999	0.998	2519
fr	0.973	0.947	0.960	38
it	0.964	0.844	0.900	32
accuracy			0.997	4881
macro avg	0.986	0.958	0.971	4881
weighted avg	0.997	0.997	0.997	4881

Letters – language – pytorch simple

#Performance:

Seconds used for training: 536

Seconds used for classification: 1

#Classification report:

	precision	recall	f1-score	support
da	0.998	1.000	0.999	844
de	1.000	0.998	0.999	1448
en	0.999	1.000	0.999	2519
fr	0.974	1.000	0.987	38
it	0.967	0.906	0.935	32
accuracy			0.999	4881
macro avg	0.987	0.981	0.984	4881
weighted avg	0.999	0.999	0.999	4881

News – category – logistic regression

#Performance:

Seconds used for training: 4577

Seconds used for classification: 33

#Classification report:

	precision	recall	f1-score	support
ARTS & CULTURE	0.565	0.309	0.399	282
BLACK VOICES	0.505	0.429	0.463	392
BUSINESS	0.466	0.416	0.439	380
COLLEGE	0.686	0.505	0.582	212
...				
TRAVEL	0.634	0.689	0.660	405
WEDDINGS	0.779	0.775	0.777	400
WEIRD NEWS	0.377	0.424	0.399	408
WELLNESS	0.362	0.445	0.399	407
WOMEN	0.433	0.448	0.440	400
WORLD	0.612	0.656	0.633	404
accuracy			0.559	12824
macro avg	0.565	0.551	0.554	12824
weighted avg	0.566	0.559	0.559	12824

News – category – pytorch simple

#Performance:

Seconds used for training: 348

Seconds used for classification: 2

#Classification report:

	precision	recall	f1-score	support
ARTS & CULTURE	0.452	0.348	0.393	282
BLACK VOICES	0.296	0.464	0.362	392
BUSINESS	0.400	0.379	0.389	380
COLLEGE	0.647	0.467	0.542	212
...				
TRAVEL	0.547	0.667	0.601	405
WEDDINGS	0.701	0.772	0.735	400
WEIRD NEWS	0.397	0.287	0.333	408
WELLNESS	0.287	0.568	0.382	407
WOMEN	0.384	0.362	0.373	400
WORLD	0.530	0.584	0.556	404
accuracy			0.507	12824
macro avg	0.519	0.502	0.502	12824
weighted avg	0.521	0.507	0.506	12824

Movie – sentiment – logistic regression

#Performance:

Seconds used for training: 406

Seconds used for classification: 26

#Classification report:

	precision	recall	f1-score	support
negative	0.910	0.890	0.900	4985
positive	0.893	0.913	0.903	5015
accuracy			0.902	10000
macro avg	0.902	0.902	0.902	10000
weighted avg	0.902	0.902	0.902	10000

Movie – sentiment – pytorch simple

#Performance:

Seconds used for training: 581

Seconds used for classification: 3

#Classification report:

	precision	recall	f1-score	support
negative	0.935	0.823	0.875	4985
positive	0.843	0.943	0.890	5015
accuracy			0.883	10000
macro avg	0.889	0.883	0.883	10000
weighted avg	0.889	0.883	0.883	10000