ROOT DIRECTORY

SINGLE-SOURCE TRUTH FOR WIKIPEDIA CATEGORIES

SIMPLE QUESTIONS HARD ANSWERS

How many articles on Wikipedia are related to mathematics?

31,444 Portal estimate
23,051 Wikidata estimate
34,425 PetScan estimate:

WAYTOO MANY CATEGORY TOOLS

- 1. 'Portal' pages
- 2. 'Outline' pages
- 3. 'Indices' pages
- 4. 'Areas of' pages
- 5. 'Contents' pages
- 6. 'Category' pages
- 7. 'Glossaries' pages
- 8. 'Overviews' pages
- 9. 'Contents/Lists' page
- 10. 'Category: Lists' page
- 11. 'Lists of lists of lists' page

FNTER MACHINE LEARNING

TITLE	Wiki Article	Simple Wiki Article	Probability Score	Complexity Score	Quality Score
Logistic Regression	https://en.wikipedia.org /wiki/Logistic_regression		0.92	0.74	0.2

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MODELING

TF-IDF

MULTINOMIAL NAIVE BAYES
LOGISTIC REGRESSION

FEATURE IMPORTANCE

VERY MATHY WORDS

MATHEMATICIAN

THEOREM

NUMBER

ALGORITHM

VERY NOT MATHY WORDS

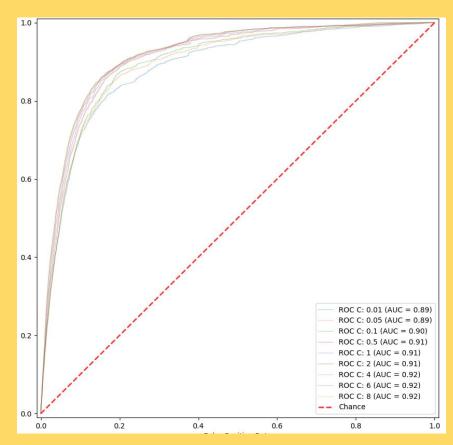
ENGINEER

PHYSICS

ART

CHEMISTRY

TRUE POSITIVE RATE



FALSE POSITIVE RATE

CONFUSION MATRIX 0.20

TRUE NEGATIVES

11792

FALSE POSITIVES

2780

FALSE NEGATIVES

277

TRUE POSITIVES

1823

FALSE POSITIVES

	title	predicted	actual	threshold_pred
2760	Criss-cross algorithm	0.952502	0.0	True
2761	Vector logic	0.953342	0.0	True
2762	Category:Biological theorems	0.954540	0.0	True
2763	Chaitin's constant	0.955203	0.0	True
2764	Computational complexity	0.958522	0.0	True
2765	P versus NP problem	0.959869	0.0	True
2766	Non-constructive algorithm existence proofs	0.960831	0.0	True
2767	Generic-case complexity	0.962550	0.0	True
2768	Time complexity	0.962793	0.0	True
2769	Computing the permanent	0.964047	0.0	True
2770	Integer factorization	0.965000	0.0	True
2771	Computable number	0.971522	0.0	True
2772	Theory of computation	0.971899	0.0	True
2773	Discrete logarithm	0.972355	0.0	True
2774	Linear programming	0.972618	0.0	True
2775	Existential theory of the reals	0.978830	0.0	True
2776	Computable function	0.980849	0.0	True
2777	Computational complexity theory	0.982427	0.0	True
2778	Numerical analysis	0.983520	0.0	True

FALSE POSITIVES

		predicted	actual	
	titl	0.952502	0.0	reshold_pred
2760	Criss-cross algorithm	0.953342	0.0	True
2761	Vector logi	0.954540	0.0	True
2762	Category:Biological theorem			True
2763	Chaitin's constar	0.955203	0.0	True
2764	Computational complexit	0.958522	0.0	True
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2768	Time complexit			True
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2778	Numerical analysi	0.980849	0.0	True
		0.982427	0.0	
		0.983520	0.0	

SO, HOW MANYMATH AREON ESWIKIPEDIA?

JAKUB SVEC

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