

Summzarization & Multi-label Classification for Long Text

This app summarizes and then classifies your long text with multiple labels.

Inputs: User enters their own custom text and labels.

Outputs: A summary of the text, likelihood percentages for each label and a downloadable csv of the results. Option to evaluate results against a list of ground truth labels, if available.

Input any text you want to summarize & classify here (keep in mind very long text will take a while to process):

[Excerpt from Project Gutenberg: Frankenstein]

I returned home not disappointed, for I have said that I had long considered those authors useless whom the professor reprobated; but I returned not at all the more inclined to recur to these studies in any shape. M. Krempe was a little squat man with a gruff voice and a repulsive countenance; the teacher, therefore, did not prepossess me in favour of his pursuits. In rather a too philosophical and connected a strain, perhaps, I have given an account of the conclusions I had come to concerning them in my early years. As a child I had not been content with the results promised by the modern professors of natural science. With a confusion of ideas only to be accounted for by my extreme youth and my want of a guide on such matters, I had retraced the steps of knowledge along the paths of time and exchanged the discoveries of recent inquirers for the dreams of forgotten alchemists. Besides, I had a contempt for the uses of modern natural philosophy. It was very different when the masters of the science sought immortality and power; such views, although futile, were grand; but now the scene was changed. The ambition of the inquirer seemed to limit itself to the annihilation of those visions on which my interest in science was chiefly founded. I was required to exchange chimeras of boundless grandeur for realities of little worth.

Enter possible labels (comma-separated):

Batman,Science,Sound,Light,Creation,Optics,Eyes,Engineering,Color,Communication,Death,1/1000

If available, enter ground truth labels to evaluate results, otherwise leave blank (comma-separated):

Science,Sound,Light,Creation,Engineering,Communication,Death 60/1000

Select a threshold cutoff for matching percentage (used for ground truth label evaluation)

0.50

0.00 1.00

Submit

Time taken to load summarizer mnl model: 0.0005 seconds

Time taken to load classifier mnl model: 0.0006 seconds

Text Chunk & Summaries

Breaks up the original text into sections with complete sentences totaling less than 1024 tokens, a requirement for the summarizer.

Original Text Chunk 1/2

I returned home not disappointed , for I have said that I had long considered those authors useless whom the professor reprobated; but I returned not at all the more inclined to recur to these studies in any shape. M. Krempe was a little squat man with a gruff voice and a repulsive countenance; the teacher, therefore, did not prepossess me in favour of his pursuits. In rather a too philosophical and connected a strain, perhaps, I have given an account of the conclusions I had come to concerning them in my early years. As a child I had not been content with the results promised by the modern professors of natural science. With a confusion of ideas only to be accounted for by my extreme youth and my want of a guide on such matters, I had retraced the steps of knowledge along the paths of time and exchanged the discoveries of recent inquirers for the dreams of forgotten alchemists. Besides, I had a contempt for the uses of modern natural philosophy. It was very different when the masters of the science sought immortality and power; such views, although futile, were grand; but now the scene was changed. The ambition of the inquirer seemed to limit itself to the annihilation of those visions on which my interest in science was chiefly founded. I was required to exchange chimeras of boundless grandeur for realities of little worth.

Such were my reflections during the first two or three days of my residence at Ingolstadt, which were chiefly spent in becoming acquainted with the localities and the principal residents in my new abode. But as the ensuing week commenced, I thought of the information which M. Krempe had given me concerning the lectures. And although I could not consent to go and hear that little conceited fellow deliver sentences out of a pulpit, I recollected what he had said of M. Waldman, whom I had never seen, as he had hitherto been out of town.

Partly from curiosity and partly from idleness, I went into the lecturing room, which M. Waldman entered shortly after. This professor was very unlike his colleague. He appeared about fifty years of age, but with an aspect expressive of the greatest benevolence; a few grey hairs covered his temples, but those at the back of his head were nearly black. His person was short but remarkably erect and his voice the sweetest I had ever heard. He began his lecture by a recapitulation of the history of chemistry and the various improvements made by different men of learning, pronouncing with fervour the names of the most distinguished discoverers. He then took a cursory view of the present state of the science and explained many of its elementary terms. After having made a few preparatory experiments, he concluded with a

many of its elementary terms. After having made a few preparatory experiments, he concluded with a panegyric upon modern chemistry, the terms of which I shall never forget:

"The ancient teachers of this science," said he, "promised impossibilities and performed nothing. The modern masters promise very little; they know that metals cannot be transmuted and that the elixir of life is a chimera but these philosophers, whose hands seem only made to dabble in dirt, and their eyes to pore over the microscope or crucible, have indeed performed miracles. They penetrate into the recesses of nature and show how she works in her hiding-places. They ascend into the heavens; they have discovered how the blood circulates, and the nature of the air we breathe. They have acquired new and almost unlimited powers; they can command the thunders of heaven, mimic the earthquake, and even mock the invisible world with its own shadows."

Such were the professor's words—rather let me say such the words of the fate—enounced to destroy me. As he went on I felt as if my soul were grappling with a palpable enemy; one by one the various keys were touched which formed the mechanism of my being; chord after chord was sounded, and soon my mind was filled with one thought, one conception, one purpose. So much has been done, exclaimed the soul of Frankenstein—more, far more, will I achieve; treading in the steps already marked, I will pioneer a new way, explore unknown powers, and unfold to the world the deepest mysteries of creation.

I closed not my eyes that night. My internal being was in a state of insurrection and turmoil; I felt that order would thence arise, but I had no power to produce it. By degrees, after the morning's dawn, sleep came. I awoke, and my yesternight's thoughts were as a dream.

Partial Summary 1/2

I returned home not disappointed, for I have said that I had long considered those authors useless whom the professor reprobated; but I returned not at all the more inclined to recur to these studies in any shape. Such were my reflections during the first two or three days of my residence at Ingolstadt, which were chiefly spent in becoming acquainted with the principal residents of my new abode. But as the ensuing week commenced and I thought of the information which M. Krempe had given me concerning the lectures. And although I could not consent to go and hear that little conceited fellow deliver sentences out of a pulpit, I recollected what he had said of M. Waldman, whom I had never seen, as he had hitherto been out of town. M. Krempe was a little squat man with a gruff voice and a repulsive countenance; the teacher, therefore, did not prepossess me in favour of his pursuits. This professor was very unlike his first. His person was short but remarkably erect and his voice the sweetest I had ever heard. He appeared about fifty years of age, the opposite from his colleague, his demeanor was the opposite from his, and his person was the opposite from his, from his. He was the opposite from his, from his, from his's".....◆

Original Text Chunk 2/2

On the same day I paid M. Waldman a visit. His manners in private were even more mild and attractive than in public, for there was a certain dignity in his mien during his lecture which in his own house was replaced by the greatest affability and kindness. I gave him pretty nearly the same account of my former pursuits as I had given to his fellow professor. He heard with attention the little narration concerning my studies and smiled at the names of Cornelius Agrippa and Paracelsus, but without the contempt that M. Krempe had exhibited. He said that "These were men to whose indefatigable zeal modern philosophers were indebted for most of the foundations of their knowledge. They had left to us, as an easier task, to give new names and arrange in connected classifications the facts which they in a great degree had been the instruments of bringing to light. The labours of men of genius, however erroneously directed, scarcely ever fail in ultimately turning to the solid advantage of mankind." I listened to his statement, which was delivered without any presumption or affectation, and then added that his lecture had removed my prejudices against modern chemists; I expressed myself in measured terms, with the modesty and deference due from a youth to his instructor, without letting escape (inexperience in life would have made me ashamed) any of the enthusiasm which stimulated my intended labours. I requested his advice concerning the books I ought to procure.

"I am happy," said M. Waldman, "to have gained a disciple; and if your application equals your ability, I have no doubt of your success. Chemistry is that branch of natural philosophy in which the greatest improvements have been and may be made; it is on that account that I have made it my peculiar study; but at the same time, I have not neglected the other branches of science. A man would make but a very sorry chemist if he attended to that department of human knowledge alone. If your wish is to become really a man of science and not merely a petty experimentalist, I should advise you to apply to every branch of natural philosophy, including mathematics."

He then took me into his laboratory and explained to me the uses of his various machines, instructing me as to what I ought to procure and promising me the use of his own when I should have advanced far enough in the science not to derange their mechanism. He also gave me the list of books which I had requested, and I took my leave.

Thus ended a day memorable to me; it decided my future destiny.

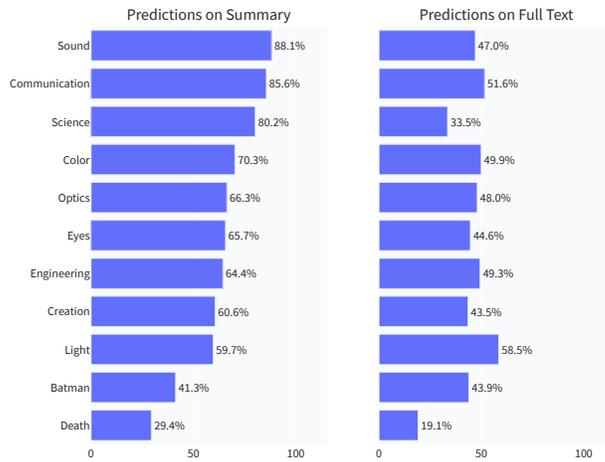
Partial Summary 2/2

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Combined Summary

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Top Label Predictions on Summary & Full Text



Data Table

	label	scores_from_summary	scores_from_full_text	is_true_label
0	Sound	0.8814	0.4704	1.0000
1	Communication	0.8559	0.5157	1.0000
2	Science	0.8016	0.3350	1.0000
3	Color	0.7025	0.4990	0.0000
4	Optics	0.6631	0.4796	0.0000
5	Eyes	0.6566	0.4462	0.0000
6	Engineering	0.6436	0.4932	1.0000
7	Creation	0.6062	0.4348	1.0000
8	Light	0.5966	0.5849	1.0000
9	Batman	0.4128	0.4387	0.0000

Download data as CSV

Evaluation Metrics

Summary Label Performance

Threshold set for: 0.5

	precision	recall	f1-score	support
0.0	0.5000	0.2500	0.3333	4.0000

1.0	0.6667	0.8571	0.7500	7.0000
accuracy	0.6364	0.6364	0.6364	0.6364
macro avg	0.5833	0.5536	0.5417	11.0000
weighted avg	0.6061	0.6364	0.5985	11.0000

Original Full Text Label Performance

Threshold set for: 0.5

	precision	recall	f1-score	support
0.0	0.4444	1.0000	0.6154	4.0000
1.0	1.0000	0.2857	0.4444	7.0000
accuracy	0.5455	0.5455	0.5455	0.5455
macro avg	0.7222	0.6429	0.5299	11.0000
weighted avg	0.7980	0.5455	0.5066	11.0000

All done!

Made with Streamlit

