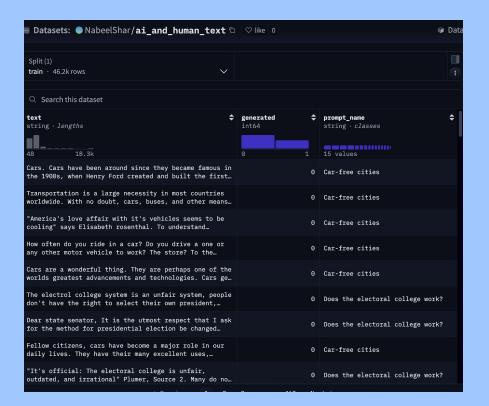
Al detector with frontend interface

- 1. Uses a technology called DistilBERT a compact AI model that understands language
- 2. This model has been trained to recognize differences between human and AI writing styles
- 3. It's like a language detective that spots subtle patterns most people miss
- 4. Similar to how you might recognize a friend's writing style, but much more precise

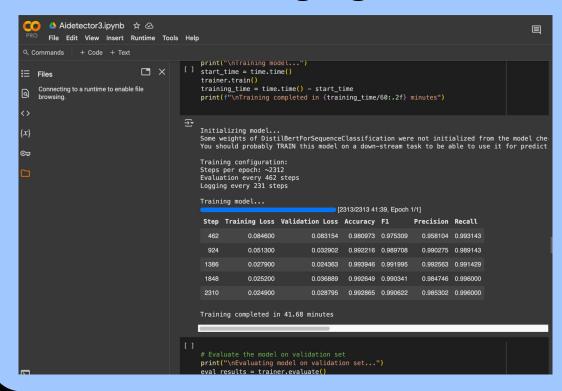
Trained on https://huggingface.co/datasets/NabeelShar/ai_and_human_text

Team Name Page



Getting a quality dataset that had good examples, lots of data, and thus prevented overfitting took three tries. This was my third dataset and script.

Model trained on google Collab

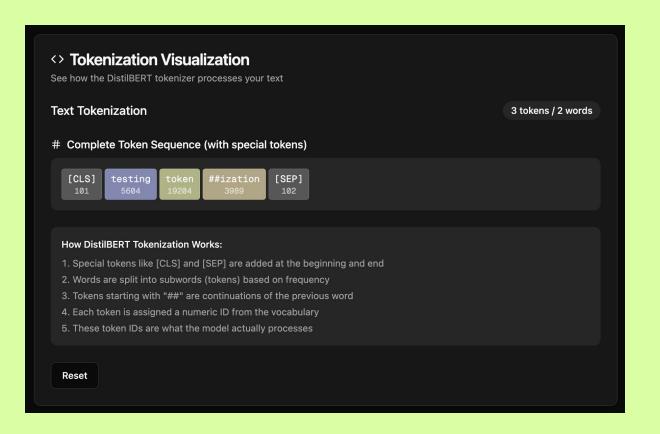


The dataset is imported using a link of the hugging face dataset and opened up, processed, and the loss and other metrics are seen here.

- The model doesn't read words like we do-it breaks text into smaller pieces called "tokens"
- For example, "unbelievable" becomes three pieces: "un" + "believe" + "able"
- This helps it understand parts of words and handle words it hasn't seen before
- Every token gets converted to a number that the AI can process

Tokenization

Team Name



The AI can only look at 512 tokens (roughly 300-400 words) at once For longer texts, we use a "sliding window" approach:

- Break the text into overlapping chunks
- Analyze each chunk separately
- Combine the results to get the final answer

Like reading a book by examining overlapping pages rather than the whole book at once

The overlaps are 256 tokens

This is due to the nature of the model-you must input an exact length.

Shorter ones have tokens added to them.

512 token input and larger inputs

The system doesn't just give a yes/no answer-it tells you how confident it is A result might be "85% likely to be AI-generated" I adjust this confidence using a "temperature" setting to make it more reliable Higher confidence means the AI is more certain about its decision

Analysis Results Our Al model has analyzed your text	
Classification Human	✓ Human-Written
	3.34% likely to be Al-generated
Text Statistics	
Word Count 148	Character Count 833

Flask handles requests from users When you submit text, it:

Prepares the text for the AI model Runs the model to get a prediction Calculates confidence scores Sends results back to the website

```
(base) christopher@b01-aruba-authenticated-10-110-200-80 backend % pytho
Loading improved model...
Model loaded successfully on cpu!
 * Serving Flask app 'app'
 * Debug mode: on
WARNING: This is a development server. Do not use it in a production dep
SGI server instead.
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
 * Restarting with watchdog (fsevents)
                                                     Loading improved model...
Model loaded successfully on cpu!
                                                      backend
 * Debugger is active!
                                                        > improved_ai_detector_model
 * Debugger PIN: 105-220-697
127.0.0.1 - - [15/Apr/2025 11:53:20] "POST /api/detect
                                                       app.py
127.0.0.1 - - [15/Apr/2025 11:53:31] "POST /api/detect
                                                       127.0.0.1 - - [15/Apr/2025 11:53:31] "POST /api/detect
127.0.0.1 - - [15/Apr/2025 11:53:51] "POST /api/detect

√ frontend

127.0.0.1 - - [15/Apr/2025 11:53:53] "POST /api/detect
127.0.0.1 - - [15/Apr/2025 11:53:57] "POST /api/detect |
```

√ app

apidetecttokenize

★ favicon.ico# globals.css⇔ layout.tsx

⇔ page.tsx
 ≻ components

All the heavy AI processing happens here

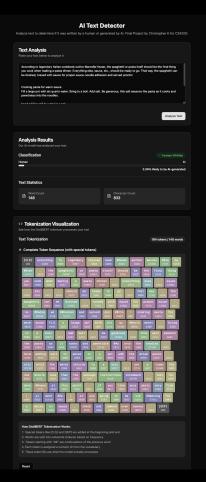
There is also the tokenization route and logic

Backend

Built using modern web technology (Next.js)

- Features a simple text input box where you paste your text
- Shows results with easy-to-understand visuals
- Includes educational sections that explain how AI detection works
- Api routing in the api/ folder handles forwarding the requests to the flask backend

Frontend



Setting up the Al part:

Install Python on your computer
Download the project files
Open a command window and type: cd backend
Install required programs: pip install -r requirements.txt
Start the AI server: python app.py

Setting up the website:

Install Node.js on your computer
Open a new command window and type: cd frontend
Install website components: npm install
Start the website: npm run dev
Open your web browser to: http://localhost:4000

Setup

http://localhost:4000

https://github.com/christopherk26/ai-text-detector

Human text:

https://feelgoodfoodie.net/recipe/how-to-cook-pasta/

Al text: (found this on linkedin - the best place to find ai generated content)

Combinator reposted this + Follow We gave up our jobs at Google, Meta, & Apple, and dropped out of Johns Hopkins to build Auctor -- now we're backed by Y Combinator! Auctor started by asking the question: Why are enterprise software implementations still so broken? Projects start with vague requirements, scattered context, and a rush to "just get started"—only to end up in endless rework, misaligned expectations, and painful After 209 customer calls, we've spent the last several months building what we think every implementation team needs: Al agents that join your discovery/refinement calls, capture every requirement, generate artifacts—from SOWs & design docs to user stories & configs, and keep it all in sync every time something changes. It's like having a sales engineer, solutions architect, and a delivery lead...all working 24/7, automatically, I'm building this with my best friends and have already started working with forward-thinking firms leading the future of delivery. If you're curious on how we're building a new intelligence layer, purpose-built for end-to-end implementations, we'd love for you to follow Auctor-or book a live demo from the company website in the comments.

https://www.linkedin.com/feed/update/urn:li:activity:7317969983924293635/

Link and demo

- Learned about LLMs, tokenization, NN's
- Realized that quality ai detectors are hard to make in general and are easy to trick
- Ai detectors in general are not very good (tried other ones online)
- What does this mean for the state of the internet (dead internet theory?)
- Incorporating several models together (what if we try
 using an Ilm and give it text and ask it to decide?)

Takeaways

If you're curious on how we're building a new intelligence layer, purpose-built for end-to-end implementations, we'd love for you to follow Auctor—or book a live demo from the company website in the comments.

Oh—and meet our fifth cofounder (Chief Bark Officer .) in the photo!

give me a percentage rating that you think this is ai generated

I'd give this post about a **35-45**% likelihood of being Al-generated. Here's why:

Reasons it *might* be Al-generated:

- Polished, structured language: The writing is clean, confident, and flows logically something Al is good at.
- Startup-style tone: The post nails the typical startup announcement voice, with crisp formatting (emojis, bullet points, punchy intro), which Al tor 's often mimic well.

Thanks!

