Getting started with CoAuthor

Goal: Download and read the CoAuthor dataset

Steps

1. Download CoAuthor
2. Read writing sessions
3. Examine events

Below sections of this .ipynb come from code from CoAuthor LINKED HERE

- Download CoAuthor
- Read writing sessions
- Examine events

1. Download CoAuthor

```
!wget https://cs.stanford.edu/~minalee/zip/chi2022-coauthor-v1.0.zip
!unzip -q chi2022-coauthor-v1.0.zip
!rm chi2022-coauthor-v1.0.zip

--2025-02-25 15:52:26--  https://cs.stanford.edu/~minalee/zip/chi2022-
coauthor-v1.0.zip
Resolving cs.stanford.edu (cs.stanford.edu)... 171.64.64.64
Connecting to cs.stanford.edu (cs.stanford.edu)|171.64.64.64|:443...
connected.
HTTP request sent, awaiting response... 200 OK
Length: 49956179 (48M) [application/zip]
Saving to: 'chi2022-coauthor-v1.0.zip'

chi2022-coauthor-v1 100%[===================>]  47.64M  13.7MB/s    in
3.5s

2025-02-25 15:52:30 (13.7 MB/s) - 'chi2022-coauthor-v1.0.zip' saved
[49956179/49956179]


import os

dataset_dir = './coauthor-v1.0'
paths = [
    os.path.join(dataset_dir, path)
    for path in os.listdir(dataset_dir)
    if path.endswith('jsonl')
]
```

```
print(f'Successfully downloaded {len(paths)} writing sessions in
CoAuthor!')

Successfully downloaded 1447 writing sessions in CoAuthor!
```

2. Read writing sessions

Each writing session is saved as a `.jsonl` file in CoAuthor. It is a very convenient format to store events occured in the writing session: each line is a JSON object, representing an *event*, and there are many lines in the file, representing *a sequence of events*.

Let's read one of the files and see what it looks like!

> `.jsonl` is the JSON Lines text format. It is convenient for storing structured data that may be processed one record at a time. For more information, please refer to https://jsonlines.org/.

```
import json

def read_writing_session(path):
    events = []
    with open(path, 'r') as f:
        for event in f:
            events.append(json.loads(event))
    print(f'Successfully read {len(events)} events in a writing
session from {path}')
    return events

events = read_writing_session(paths[0])

Successfully read 1238 events in a writing session from ./coauthor-
v1.0/9614fb65fa5146549e303e13586a947b.jsonl
```

3. Examine events

Whenever writers insert or delete text, move a cursor forward or backward, get suggestions from the system by pressing the tab key, or accept or dismiss suggestions, it is recorded as an event.

> Here is a list of all possible events in CoAuthor:
> - `system-initialize`
> - `text-insert`
> - `text-delete`
> - `cursor-forward`
> - `cursor-backward`
> - `cursor-select`
> - `suggestion-get`
> - `suggestion-open`

- suggestion-up
- suggestion-down
- suggestion-select
- suggestion-close

For more details, please check out our paper (Table 1): https://arxiv.org/pdf/2201.06796.pdf

```python
event_names = [event['eventName'] for event in events]
event_names[:10]
```

```
['system-initialize',
 'text-insert',
 'suggestion-get',
 'suggestion-open',
 'suggestion-hover',
 'suggestion-select',
 'suggestion-close',
 'text-insert',
 'text-delete',
 'text-insert']
```

Let's look at each *event* more closely now!

In the beginning of a writing session, you will see something like this for a system-initialize event:

```python
events[0]
```

```
{'eventName': 'system-initialize',
 'eventSource': 'api',
 'eventTimestamp': 1629953212703,
 'textDelta': '',
 'cursorRange': '',
 'currentDoc': 'Should College Athletes Be Paid?\n\nDo you think
college athletes should be paid? Or is a college scholarship and other
non-monetary perks like the opportunity to play in front of cheering
fans enough?\n\nIn "Paying Students to Play Would Ruin College
Sports," Cody J. McDavis writes: "Paying student-athletes might sound
like a fairer way to treat students who generate so much money and
attention for their colleges (not to mention the television networks
that broadcast their games). But paying athletes would distort the
economics of college sports in a way that would hurt the broader
community of student-athletes, universities, fans and alumni. A
handful of big sports programs would pay top dollar for a select few
athletes, while almost every other college would get caught up in a
bidding war it couldn\'t afford."\n\nDo you find his argument
persuasive? What possible difficulties or downsides might there be in
providing monetary compensation to players?\n\n---\n\nIn my opinion,\
n',
 'currentCursor': 980,
```

```
'currentSuggestions': [],
'currentSuggestionIndex': 0,
'currentHoverIndex': '',
'currentN': '5',
'currentMaxToken': '30',
'currentTemperature': '0.2',
'currentTopP': '1',
'currentPresencePenalty': '0',
'currentFrequencyPenalty': '0.5',
'eventNum': 0}
```

Concretely, an *event* is a tuple of event name, timestamp, and snapshot of the current editor. This is designed to preserve every detail about interactions at a keystroke-level, so it is quite detailed as you can see!

Event and its metadata

- `eventName`: event name (e.g. `system-initialize`)
- `eventSource`: event source (e.g. `user` or `api`)
- `textDelta`: text that has been changed compared to the previous event (if no change, empty)
- `cursorRange`: cursor location or selection that has been changed compared to the previous event (if no change, empty)

Timestamp

- `eventTimestamp`: timestamp of the event
- `eventNum`: index of the event

Snapshot of the current editor

- Editor
  - `currentDoc`: a writing prompt to start with (otherwise, empty)
  - `currentCursor`: cursor location
  - `currentSuggestions`: most recent suggestions that are stored and can be reopened
- Decoding parameters
  - `currentN`: the number of suggestions to generate per query (e.g. 5)
  - `currentMaxToken`: the maximum number of tokens to generate per suggestion
  - `currentTemperature`: sampling temperature to use for generation; higher values means the model will take more risks
  - `currentTopP`: nucleus sampling; the model considers the results of the tokens with top_p probability mass
  - `currentPresencePenalty`: positive values penalize new tokens based on whether they appear in the text so far, increasing the model's likelihood to talk about new topics
  - `currentFrequencyPenalty`: positive values penalize new tokens based on their existing frequency in the text so far, decreasing the model's likelihood to repeat the same line verbatim

For more details on decoding parameters, please refer to https://beta.openai.com/docs/api-reference/completions.

4. Detecting Tone

Here we use RoBERTa GoEmotions for our emotion classifier. Downloading the model here.

```python
from transformers import pipeline

# Load emotion classification model
emotion_classifier = pipeline("text-classification", model="j-hartmann/emotion-english-distilroberta-base", return_all_scores=True)
```

```
/usr/local/lib/python3.11/dist-packages/huggingface_hub/utils/_auth.py:94: UserWarning:
The secret `HF_TOKEN` does not exist in your Colab secrets.
To authenticate with the Hugging Face Hub, create a token in your settings tab (https://huggingface.co/settings/tokens), set it as secret in your Google Colab and restart your session.
You will be able to reuse this secret in all of your notebooks.
Please note that authentication is recommended but still optional to access public models or datasets.
  warnings.warn(
```

{"model_id":"41acdea18f8c49b492060000be8574e8","version_major":2,"version_minor":0}

{"model_id":"b8a6c130231c491ebb3c14e1730f709d","version_major":2,"version_minor":0}

{"model_id":"1480cb8b56ab439f8eb5503b81564406","version_major":2,"version_minor":0}

{"model_id":"ccc34f23735749c79697b268d3c0ac00","version_major":2,"version_minor":0}

{"model_id":"5da95c6e75fd48ecb82e786d784c1a19","version_major":2,"version_minor":0}

{"model_id":"7da11f4c4da348099907896190ff5563","version_major":2,"version_minor":0}

{"model_id":"c4970ddbb02a431599d37795f5a9bfef","version_major":2,"version_minor":0}

{"model_id":"62023e34fc7b49e699f10c7393445838","version_major":2,"version_minor":0}

```
Device set to use cpu
/usr/local/lib/python3.11/dist-packages/transformers/pipelines/text_classification.py:106: UserWarning: `return_all_scores` is now deprecated,  if want a similar functionality use `top_k=None` instead
```

```
of `return_all_scores=True` or `top_k=1` instead of
`return_all_scores=False`.
  warnings.warn(

text = "The weather is especially warm today."
result = emotion_classifier(text)
print(result)

[[{'label': 'anger', 'score': 0.06616844981908798}, {'label':
'disgust', 'score': 0.13412681221961975}, {'label': 'fear', 'score':
0.01607241854071617}, {'label': 'joy', 'score': 0.009524280205368996},
{'label': 'neutral', 'score': 0.3987541198730469}, {'label':
'sadness', 'score': 0.36784031987190247}, {'label': 'surprise',
'score': 0.007513641845434904}]]
```

Function to get the emotion label and score for top six emotions: anger, disgust, fear, joy, neutral, sadness, and surprise

```python
def get_emotion_vector(text):
    result = emotion_classifier(text)[0]
    scores = {emotion['label']: emotion['score'] for emotion in result}
    return scores, np.array(list(scores.values()))
```

5. Calculating Similarity of Tone Vectors - Jensen-Shannon Divergence (JSD)

Here I am downloading Jensen-Shannon Divergence as the method to calculate similarity of the tone portfolios that we will capture with Go Emotions.

```python
from scipy.spatial.distance import jensenshannon

def similarity_jsd(vector1, vector2):
    ''' Calculate JSD similarity between two vectors.'''
    jsd =  jensenshannon(vector1, vector2)
    similarity = 1 - jsd
    return similarity

import numpy as np
prompt = "I love when my dogs are excited to go for a walk. It makes
the walks much more enjoyable."
suggestion = "That is why I always bring their favorite stuffed
animals out to get them ready to go for a fun walk."

score1, v1 = get_emotion_vector(prompt)
score2, v2 = get_emotion_vector(suggestion)
similarity_jsd(v1, v2)

0.6319316171294749
```

```
print(score1)
print(v1)
```

```
{'anger': 0.0022996123880147934, 'disgust': 0.0035732020623981953,
'fear': 0.00047727618948556483, 'joy': 0.9764875173568726, 'neutral':
0.011999444104731083, 'sadness': 0.0032281221356242895, 'surprise':
0.0019348839996382594}
[2.29961239e-03 3.57320206e-03 4.77276189e-04 9.76487517e-01
 1.19994441e-02 3.22812214e-03 1.93488400e-03]
```

```
print(score2)
print(v2)
```

```
{'anger': 0.009798532351851463, 'disgust': 0.008384371176362038,
'fear': 0.0014324390795081854, 'joy': 0.5880451202392578, 'neutral':
0.3717357814311981, 'sadness': 0.006140437442809343, 'surprise':
0.014463272877037525}
[0.00979853 0.00838437 0.00143244 0.58804512 0.37173578 0.00614044
 0.01446327]
```

6. Creating and Visualizing Tone Similarity between CoAuthor Prompts

```
# understanding what each event contains
events[523]
```

```
{'eventName': 'text-insert',
 'eventSource': 'user',
 'eventTimestamp': 1629953466595,
 'textDelta': {'ops': [{'retain': 1402}, {'insert': 'o'}]},
 'cursorRange': '',
 'currentDoc': '',
 'currentCursor': 1403,
 'currentSuggestions': [],
 'currentSuggestionIndex': 0,
 'currentHoverIndex': 0,
 'currentN': '5',
 'currentMaxToken': '30',
 'currentTemperature': '0.2',
 'currentTopP': '1',
 'currentPresencePenalty': '0',
 'currentFrequencyPenalty': '0.5',
 'eventNum': 523}
```

User Input (User-Generated Text)

- text-insert
- text-delete

AI Suggestions (Model-Generated Text)

- suggestion-get
- suggestion-open
- suggestion-select

This chunk of code combines the previous tasks, including finding tone and similarity between two tones and calculating it for every event.

```python
from collections import defaultdict

def reconstruct_user_text(events):
    ''' Creates text from events by combining text-insert and text-
delete events.'''
    user_texts = []
    current_text = ""

    # Sort events by eventNum
    sorted_events = sorted(events, key=lambda e: e["eventNum"])

    for event in sorted_events:
        event_type = event["eventName"]
        text_delta = event["textDelta"]

        if event_type == "text-insert" and text_delta:
            extracted_text = ""
            for op in text_delta['ops']:
                if 'insert' in op:
                    extracted_text += op['insert']
            current_text += extracted_text

        elif event_type == "text-delete" and text_delta:
            delete_len = 0
            for op in text_delta['ops']:
                if 'delete' in op:
                    delete_len += op['delete']
                elif 'retain' in op:
                    pass
            current_text = current_text[:-delete_len]

        # Store finalized text if user completes a thought
        if event_type == "suggestion-get" or event_type ==
"suggestion-select":
            if current_text.strip():
                user_texts.append(current_text.strip())
                current_text = ""

    return user_texts

# Process all valid events
user_texts = reconstruct_user_text(events)
```

```python
print(f"Total reconstructed user-written sentences:
{len(user_texts)}")
print("Example user-written sentence:", user_texts)  # Show first 3
examples
```

```
Total reconstructed user-written sentences: 3
Example user-written sentence: ['college athletes should be paid over
and above their scholorships.aThey should be paid a percentage of
ticket sales. I do not agree that the broader community would be
harmed. This is real life. Times change. It is fair that if the
college makes a great sum of income, that some of it go to the
players. Colleges in bidding wars? They do that anyway, but without
money. They bid for the best. The athletes would receive no
compensation until they graduate, again, which would be a percentage
of tickets sold. \n\nIf colleges did not profit on their athletes,
then no, they should not be paid. I think this is the best solution of
all. This way, anyone can go to a game that they might not have
otherwise been able to afford.', 'Having good sports is a boon to the
colleges. They get televised or broadcasted which increases brand
awareness. There are some thin, creating good will in the community.s
that are hard to measure, like how much exposure they get and what it
is worth.', 'es']
```

This function is used to get the ai-suggestions

```python
def extract_selected_ai_suggestions(events):
    ai_suggestions = []  # Stores accepted AI-generated suggestions
    last_suggestion_open = None  # Store the most recent `suggestion-
open` event

    for event in events:
        if event["eventName"] == "suggestion-open" and
event.get("currentSuggestions"):
            last_suggestion_open = event  # Save latest `suggestion-
open` event

        elif event["eventName"] == "suggestion-select":
            if last_suggestion_open and
last_suggestion_open.get("currentSuggestions"):
                selected_index = event.get("currentSuggestionIndex", -
1)

                # Ensure selected index is valid
                if 0 <= selected_index <
len(last_suggestion_open["currentSuggestions"]):
                    selected_suggestion =
last_suggestion_open["currentSuggestions"][selected_index]["trimmed"]
                    ai_suggestions.append(selected_suggestion)
```

```
    return ai_suggestions

# Process all valid events
ai_suggestions = extract_selected_ai_suggestions(events)

print(f"Total AI Suggestions Accepted: {len(ai_suggestions)}")
print("Example AI Suggestion:", ai_suggestions[:3])  # Show first 3
examples

Total AI Suggestions Accepted: 1
Example AI Suggestion: ['college athletes should be paid.']
```

Here you can run this code to create a dataframe which contains the user text, ai-suggestion, and the tone similarity score.

```python
import pandas as pd
jsd_results = []
small = paths[100:110]
for path in small:
    events = read_writing_session(path)

    # Extract user-written text and AI-generated suggestions
    user_texts = reconstruct_user_text(events)
    ai_suggestions = extract_selected_ai_suggestions(events)
    print(f"User-written sentences: {user_texts}")
    print(f"AI-generated suggestions: {ai_suggestions}")

    # Ensure we only compare matching pairs
    for user_text, ai_text in zip(user_texts, ai_suggestions):
        user_score, user_vector = get_emotion_vector(user_text)
        ai_score, ai_vector = get_emotion_vector(ai_text)

        # Compute JSD similarity
        jsd_similarity = similarity_jsd(user_vector, ai_vector)

        # Store results
        jsd_results.append({
            "path": path,
            "user_text": user_text,
            "ai_suggestion": ai_text,
            "jsd_similarity": jsd_similarity
        })

# Save results to CSV
df_results = pd.DataFrame(jsd_results)

print(f"Processed {len(paths)} paths. Results saved to
emotion_similarity_results.csv.")
```

Successfully read 2215 events in a writing session from ./coauthor-v1.0/bac237f54fe449e18334a685c6381657.jsonl
User-written sentences: ['dating apps and technology in general have paved the way to bridge closer connections together than', 'ever before. Because of dating apps such as Tinder, Facebook', ', Instagram, Snapchat, and other social media platforms, people are able to connect with each other in ways that were not possible before. Imagine before where two strangers could only meet by chance on a particular instance, nowadays we are', "able to connect with people from all over the world. It's almost as if it's cheating to find the one and what most people call,", 'your soulmate.\n\nOf course being too distracted and neglecting to spend time with your loved ones if you use these dating apps too often can be a negative. But so is', 'anything else that you do in excess. So the usage of technology must come with a great', 'balance and moderation. This way,', 'you can still enjoy the benefits of technology while still being able to maintain a healthy relationship with your significant other.\n\nW remember being a kid and having no internet in the house, in order for me to contact a loved one that is far away is to', 'write a letter and send it through snail mail. It was a slow, expensive, and', 'a time consuming process. We almost take it for granted today that', 'we can send a message to someone in another country in a matter of seconds that is also free of cost, considering you already have the equipment to do so. I feel like in the future, it would just be improved and we would all feel very connected more than less.\n\nBeing in a video call or a phone call, something may seem missing.', "It's not the same as being in person. Being intimate and feeling the touch of someone is still something that the technology can give. That's why", 'I am optimistic that in the future, this can be', 'improved and we can have a more intimate connection with each other. Having a device that lets you', "feel the touch of someone is something that I would like to see in the future. That way, there's no need for", 'you to be in the same room as someone in order to feel their touch. This eliminates the issue of', 'having to travel long distances just to see someone.\n\nSo just to clarify my stance with technology and dating apps, I feel like they are a bridge instead of', 'a barrier. Using it in moderation, I feel like the tools the dating apps and social media provide is very', 'useful and can help people connect with each other in ways that were not possible before. It is also actively trying to fulfill the further needs of humanity and making me optimistic that in the future,', "we will be able to have a more intimate connection with each other. Have you contacted a loved one recently? If not, I do urge you to go ahead and make sure they're"]
AI-generated suggestions: ['ever before.', ', Instagram, Snapchat, and other social media platforms, people are able to connect with each other in ways that were not possible before.', 'able to connect with people from all over the world.', 'balance and moderation.', 'you can still enjoy the benefits of technology while still being able to maintain a healthy relationship with your significant other.', 'write a letter and send it through snail mail.', 'a time consuming

process.', 'we can send a message to someone in another country in a matter of seconds.', "It's not the same as being in person.", 'improved and we can have a more intimate connection with each other.', 'feel the touch of someone is something that I would like to see in the future.', 'you to be in the same room as someone in order to feel their touch.', 'having to travel long distances just to see someone.', 'a barrier.', 'useful and can help people connect with each other in ways that were not possible before.', 'we will be able to have a more intimate connection with each other.', 'doing well.']

Successfully read 2355 events in a writing session from ./coauthor-v1.0/8393a8ed335f438c9ad5ca3d25a947b6.jsonl

User-written sentences: ['And the pig was like "That\'s right, dude. I saw the shaped charges you used on the 91st pig\'s steel reinforced concrete house, and that\'s not gonna cut it with mine."', 'The wolf was like, "Whatever, dude. I\'m tired of this game anyway, you build the craziest most reinforced house you like, because I\'m not huffing, or puffing, or shooting. or dynamiting, or anything else to try to get in there." Then,', 'the wolf went off to fhe forest to live a normal wolf life, he joined a pack,', 'and became a normal wolf.', 'He met a lady wolf, they had cubs, and', 'ate deer, and rabbits, and it was', 'a very happy, normal wolf life.\n\nMeanwhile, the pig', 'sat around his depleted uranium house, and worried. He', 'was like, "What if the wolf hadn\'t given up?" He was constantly waiting for the attack which never came.', 'He lived in fear for seven years. Over those seven years, he', 'ate his food without savoring it, he never laughed, he had no friends or family. He searched his house for', "hidden ways in, and when he couldn't find any, he searched for hidden ways out. That was a bust. He checked the yard for signs", 'of the wolf, he installed motion sensing cameras around his house, he bought a wolf-call for the phone. He did constant Google searches related to home security, and incidentally found out that depleted uranium', "was a little dangerous, and known to raise the incidence of cancer in human tank operators.\n\nHe told himself that that didn't apply to pigs, and in any event, it was worth it to be wolf-free. So, he", 'sat, and he waited, and he ate. He got fat as a pig, which in this case, him already being fat as a pig, meant he was as fat as', 'a pig that had gotten fatter than a normal pig. In other words, as fat as two', 'norma After seven years of this, he realized he was', 'wasting his life, and he decided he would leave home for the first time in seven years to see what was going on outside. slowly killing himself, and \n\nHe left his depleted uranium home, and ventured out to the forest, where', 'he saw the normal wolf pack which had been living there, completely oblivious to his existence. He spoke to the wolf. "Hey, you look pretty happy, I guess not eating me was a pretty good deal after all?" The wolf was silent, because now he was a normal wolf who couldn\'t talk.\n\nThe pig continued "So, would it be okay if I moved out here, and lived a normal life you like you have?" The wolf moved his head a bit, which the pig took as an assent, and the pig began rooting among the shrubs for stuff to eat.\n\nThe wolf pack paused for a moment, surprised by thehesitatedis strange creature that talked,

and seemed to have no fear of them. After that moment, of course, they']
AI-generated suggestions: ['And the wolf was like "dude."', 'a few hours later when he went to go huff the house, he was like, "What is this stuff?', 'and got some other wolves to do his dirty work for him.', 'all good.', 'was like, "What if the wolf hadn\'t given up?"', 'Until one day, the wolf came back.', 'ate his food without savoring it, he never laughed, he had no friends or family.', 'radiation leaks constantly.', "of tunneling, and when he couldn't find any there either, he checked the moon for signs of wolves.", "is worse than he had thought, it's not just a little bad for you, but a lot bad for you.", 'sat, and he waited, and he ate.', 'a pig could be.', 'normal pigs.', 'just as fat and miserable as he would have been if the wolf had come and eaten him, so one day he got up, ate his breakfast without', 'he saw the normal wolf pack which had been living there, completely oblivious to his existence.', 'tore him to pieces.']
Successfully read 2150 events in a writing session from ./coauthor-v1.0/994c929ac0db414cbb96423bb245eb7c.jsonl
User-written sentences: ['Scientists realize that this drug actually causes', 'people to become particularly voracious about their sexuality.', 'The drug is recalled, and the government is forced to pay for the cost of the drugabout satiating basic human needs and desires like food, shelter, clothing, and sex.\n\n But already an entire human population has been impacted by the drug. The only people saved are those who are your age or older since you were the only ones that did not receive the drug.', "You are one of the few people who are not affected by the drug.\n But you have seen how this drug has totally decimated others. For example, a good friend of yours who is younger than you is obese because she cannot stop stuffing food into her face. Another one of your friends has gone bankrupt buying herself 100 houses since she feels extreme anxiety about not having enough housing to live in. And another one of your friends has also become a hoarder since she has so many clothes bursting at the seams of her house. Finally, one of your friends is in a constant state of postpartum depression since she's now been through forty-three pregnancies. Her sexual appetite is just unending.", 'You have decided to take action.', 'You want to save humanity from itself.', 'You want to stop this drug from ever being used again.', 'You have decided to create a new drug that will counteract the effects of the immortality drug.', 'You call it the "Anti-Immortality Drug."', 'You spend many nights and days working in your lab trying to perfect the drug. When it has finally been perfected you', "decide to test it out on yourself. You don't see any short-term side effects or reactions so you feel good about your creation. You then administer the drug to your friends. The friend of yours who has the high libido instantly feels that her sexual urges are quelled. The friend who is bankrupt from all her houses starts selling them off like crazy, thus vastly improving her net worth. The friend who is a hoarder gives all her clothes to the homeless. And the friend who is obese learns moderation when it comes to her diet.\n\nEveryone in society who takes your

drug", 'is now living a normal life. They all cheer for you as their personal hero.']
AI-generated suggestions: ['The drug is recalled, and the government is forced to pay for the cost of the drug and the side effects.', 'You are one of the few people who are not affected by the drug.', 'You have decided to take action.', 'You want to save humanity from itself.', 'You want to stop this drug from ever being used again.', 'You have decided to create a new drug that will counteract the effects of the immortality drug.', 'You call it the "Anti-Immortality Drug."', 'decide to test it out on yourself.', 'is now living a normal life.', 'You are hailed as the savior of humanity.']
Successfully read 3792 events in a writing session from ./coauthor-v1.0/b6acb37208be4f3e96965f989fd6f9fb.jsonl
User-written sentences: ['I was 28 when English scientists discovered a miracle drug that stopped humanity from aging. Humanity had finally discovered the key to living forever and avoiding the one debt that every human being owes upon birth, death. Scientists had warned that the drug was only meant for citizens under 26, which left billions of people, including myself, without any hope of taking the drug. People around the world were furious and saddened to hear the news that they would not live forever. Meanwhile, the younger generations were divided on whether or not they wanted to live forever. Taking the drug meant living forever or outliving loved ones and watching them pass on.', 'The rest of the world was not as hesitant to take the drug, and many saw immortality as a chance for humanity to expand and achieve incredible things. Taking the drug would allow people to study whatever they wanted and help to improve society for the better. No longer did people have to settle for boring desk jobs, they could pursue any field of study they wanted.', 'Doctors no longer had to worry about sicknesses and disease, they could now devote their time towards helping people. among a large portion of society who could not take the drugThe "Lost Generation" continued to age, while the young took the drug and became immortal. Families were torn apart, knowing that they would leave loved ones behind. They feared that their loved ones would forget about them as the centuries carried on.', 'While the young celebrated their immortality, the old feared that they would be forgotten. As time passed, I grew older, finally reaching the ripe old age of 85,. Society had definitely improved through the efforts of an immortal, optimistic generation of people with all the time in the world on their shoulders.,', 'They set their sights on new frontiers that would be impossible for a normal human lifetime.had Technology had improved by leaps and bounds, providing comfort beyond imagination for people from all walks of life. Medicinal advances provided the "Lost Generation" with cures for ailments that only affected an aging body. I began to wonder if taking the drug was worth it. At a certain point, the "Lost Generation" would be no more, ceasing to exist in time, leaving the immortals behind.', 'Was living forever worth it? Were all of the human advances worth it in the end?', 'The immortals were only prolonging the inevitable.', 'I was concerned with how the immortals would feel after living for

hundreds of years, or even thousands. Finally, in a shocking turn of events, scientists discovered that the drug resulted in tragic side effects. The immortals began to lose their sight, hearing, taste, sense of smell, aspects of human life. all No longer could they enjoy what made life so pleasurable, the biological features that made life worth living.', 'The drug had robbed them of all senses, leaving them to a life where they were no longer huma They could not rely on "The Lost Generatthe", for they too needed help. One generation was dying naturally, the other were becoming walking husks, devoid of humanity.', 'The immortals were now a burden, and the "Lost Generation" was stuck in between.', 'The immortals were now at the mercy of the "Lost Generation", for they needed help. The "Lost Generation" could not help, they could only provide wisdom to ease the pain of living without their senses.', 'The immortals were not the picture of humanity, they were a nightmare. Zombies walking amongst the living and the aging.', 'The immortals were not living, they were merely existing in the world. Their hope and dreams of living forevers dashed against the stones by the grim reaper. The "Lost Generation" died out one by one, I was one of the remaining few a bygone era. of']
AI-generated suggestions: ['The rest of the world was not as hesitant to take the drug, and many saw immortality as a chance for humanity to expand and achieve incredible things.', 'Doctors no longer had to worry about sicknesses and disease, they could now devote their time towards helping people.', 'While the young celebrated their immortality, the old feared that they would be forgotten.', 'They set their sights on new frontiers that would be impossible for a normal human lifetime.', 'Was living forever worth it?', 'The immortals were only prolonging the inevitable.', 'I was concerned with how the immortals would feel after living for hundreds of years, or even thousands.', 'The drug had robbed them of all senses, leaving them to a life where they were no longer human.', 'The immortals were now a burden, and the "Lost Generation" was stuck in between.', 'The immortals were now at the mercy of the "Lost Generation", for they needed help.', 'The immortals were not the picture of humanity, they were a nightmare.', 'The immortals were not living, they were merely existing in the world.', 'I had witnessed the downfall of humanity, and luckily for me, I was spared from the pain of loss.']
Successfully read 1748 events in a writing session from ./coauthor-v1.0/12c0273868a84564a5f001c3c086f69f.jsonl
User-written sentences: ["I can't blow that down. That's not fair. Where did you even get the uranium from?", "I have no idea how to blow that down.\n\nThe 92nd little pig was ecstatic because he had solved the issue that the wolf couldn't fix. All of his brethren before had their houses blown down. He outsmarted the wolf."]
AI-generated suggestions: ['So the wolf went and he built a house out of depleted uranium.', 'He had a house of super strength.']
Successfully read 1402 events in a writing session from ./coauthor-v1.0/63ab89c6ca594ea0a80519442ac4c27b.jsonl
User-written sentences: ["Now, it's too late. It is rumored that a new drug has been created.", "But the government isn't giving it away for

free. It is too expensive for most citizens so people are going great lengths to obtain it illegally.", 'To get the drug, you and your friends decide to find a way into the headquarters of the government facility where it is supposedly being held.\n The risks are high, but the group is going for it anyway.', 'They planned carefully and the big night had finally arrived.', 'They began their journey and successfully make it into the facility. They follow the map to the vault where the drugs are being stored.', "But it turns out there is an alarm. They hadn't planned for this. They had to either turn around and leave now, or find a way to bypass the alarm.", 'They chose to continue and discover an elevator that leads to a secret floor deep within the building. The elevator descended to the floor below, and then kept going and going.', "It was not to the lower floor, but to another section of the facility. It went down so far they couldn't fathom how far underground they had gone.", 'Then, the elevator stopped and the doors opened.', 'They were in a strange laboratory. "This must be where they make the drug."', 'you thought. The team searched on. "We shouldn\'t be down here. We should just find the product and go. We shouldn\'t mess with this stuff."', 'your best friend said. Suddenly, the elevator doors closed and the elevator lifted up away, leaving them in the deep basement.', "They were stuck. They went to press the elevator buttons, but there weren't any.", 'A few moments later, the doors opened and a mysterious figure walked in.', 'He was the leader of the facility. "I understand you want access to our product. I have a better offer."', 'he said.', '"I will give you access, but you must agree to my terms." They agreed.', '"You will bring me an item every week for the rest of your lives, and I will give you your drug.']

AI-generated suggestions: ["Now, it's too late.", "But the government isn't giving it away for free.", "When you're 28, you have a normal life.", "The night is still young, and with any luck, they'll all be strong enough to live through the night.", 'But it turns out there is an alarm.', 'They chose to continue and discover an elevator that leads to a secret floor deep within the building.', 'As the elevator finally stopped, they discovered the secret floor was covered in discarded prototypes.', 'Then, the elevator stopped and the doors opened.', 'They stepped out to find themselves in a totally different part of the facility.', 'They thought.', '"Yeah, but it could be our only chance to live forever."', 'They were stuck.', 'A few moments later, the doors opened and a mysterious figure walked in.', 'He was the leader of the facility.', 'he said.', 'He was an older man, but he appeared stronger and more powerful than you.', '"You will bring me an item every week for the rest of your lives, and I will give you your drug.', 'If you fail, I will use your friends as my new test subjects."']

Successfully read 1445 events in a writing session from ./coauthor-v1.0/3b6e7a4c9d65411f9342254120abcde7.jsonl

User-written sentences: ["Choosing depleted uranium wasn't 92's first choice of building material,", 'nor his second, or even his third. But, after realizing that this was a material that none of his other

sibling would use, he accepted this as a challenge. \n\nFor generations, Wolf has been the enemy to the pigs and their mother. But after meeting 60 or 70 pigs, Wolf realized he could learn from their determination. Maybe he could even help them from the past mistakes of their elders.', 'He could use his knowledge to meet their needs, and make a mutually beneficial deal.', "The wolf started to teach the pigs how to be shrewd business people. and one of those lessons came in the form of a town who had shut down its nuclear power plant decades ago, but left the uranium on site. \n\nTo be fair, the house itself isn't built out of the uranium itself, but the steel containers that hold the product.", "The 92nd pig found out that steel containers were either thrown away, bur. These were stackable barrels that exuded a faint glow. Pigs being pigs, housekeeping wasn't always the best, yet bugs never entered 92's property."]
AI-generated suggestions: ['nor his second, or even his third.', 'He could use his knowledge to meet their needs, and make a mutually beneficial deal.', 'The wolf started to teach the pigs how to be shrewd business people.', 'The 92nd pig found out that steel containers were either thrown away, buried, or sold for scrap.', 'Choosing this material also helped 92 make a profit.']
Successfully read 1080 events in a writing session from ./coauthor-v1.0/3778eebfc9df42429aa1f23db1934a9d.jsonl
User-written sentences: ['the most important things students should learn in school is social skills academic knowledge as well as .', 'Academic knowledge is important because it helps students to learn how to solve problems and think critically.', 'This will help students to cope with their future jobs and daily problems they encounter.', 'Academic knowledge learnt at school is fundamental to everything. The knowledge will also help students to distinguibetween the truth and what is true and what is untrue.', ', which is very important when the students make decisions on their owncertain . Besides, getting along with their classmates at school also helps the students develop social skills, which are necessary for their survival in the society.']
AI-generated suggestions: ['Academic knowledge is important because it helps students to learn how to solve problems and think critically.', 'The most important thing I have learned in school is the importance of being honest.']
Successfully read 1929 events in a writing session from ./coauthor-v1.0/8b3585b594e24e0dbfd53eae933d2f4a.jsonl
User-written sentences: ['technology has greatly improved dating.', "I've found that dating apps in particular increase the odds of finding a relationship, at least for me. Just having the ability to use Tinder or Bumble takes away the nerves from introducing yourself to someone in person. Breaking that ice is what I find the most difficult. Being able to talk to someone via a messaging app gives me a good indication on whether or not we are compatible.\n\nObviously there is still stress when it comes to dating even with the advancement of technology. Ultimately, no matter how well you know someone via the internet or via messaging apps, that first meeting is person is very nerve wracking.", "I think technology does a really

good job in helping alleviate anxiety, but it never fully prepares you for a first impression.\n I may be extremely comfortable speaking to someone via text or messenger but may be too nervous in person and those nerves could show.\n\nPersonally, I have had a ton of experience as I am now 30 years old. I felt that over time I got less nervous. It's kind of like anything. The more you do something the more confident you get. I remember my first date I actually spoke to a girl online a ton. Meeting her I was so nervous because I really liked her and felt she liked me as well. We finally met and things went pretty smoothly, much better than I was expecting considering how nervous I was. I look back at that first date and laugh because I was putting so much pressure on myself for no reason.\n\nTechnology lets us break the ice and then ultimately when you're on the date you just have to be yourself. The other person is probably just as nervous as you are. After all, nobody wants to embarrass themselves or come across negatively on a first date. Of course there are first dates that just don't go well. That's a part of life."]

AI-generated suggestions: ['technology enables us to connect in ways that we otherwise wouldn't be able to.', 'Its availability in cities, and ease of use has increased the pool of potential romantic partners, makes finding people from different backgrounds and interests much easier.', 'I think technology does a really good job in helping alleviate anxiety, but it never fully prepares you for a first impression.', 'And believe me, most of the time I wish I had just remained friends with the person we went out with rather than actually going on a date and']

Successfully read 2474 events in a writing session from ./coauthor-v1.0/bf03f184f45441258d7e0658a1742332.jsonl

User-written sentences: ['This, after all, is not the first time that Matt Damon has gone missing.', 'The first time Matt Damon went missing, humanity had practically stopped in its tracks to try to find him.', 'The alien is not aware that Matt Damon is a very important person to the human race.\n This is because Matt Damon has incredible talents. He is funny, personable and can even cast magical spells.', 'He is also a master of disguise and can be anyone he wants to be. For example, Matt Damon can morph into a clown, or a doctor, or a lawyer, or a schoolteacher, or anyone else depending on his mood.', 'With all these talents, skills and abilities, Matt Damon is arguably the most powerful human on planet Earth.\n\nSo when the alien kidnaps Matt Damon, he really has no idea what he is up against.', "He is unaware that the human race will stop at nothing to retrieve Matt Damon. In fact, a group of humans based on Switzerland is immediately notified of Matt Damon's disappearance.", 'They are called the "Matt Damon Retrieval Team" and they are the most elite group of humans on the planet. This Swiss team has a lot of powerful weapons at their disposal to try to get Matt Damon back on planet Earth.', 'The alien is not aware of this, but he is about to get a rude awakening.\n The Swiss team sets out to find the alien in a spaceship. They set their sights on the planet where they know the alien is: Planet Borg. Planet Borg is zillions of lightyears away from the Swiss, but they are

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totally undeterred. They truly stop at nothing for Matt Damon. And so,
as a result, the alien is not prepared for the blasts of rain and fire
that he is hit with all of a sudden on Planet Borg. The Swiss have
arrived!', 'The Swiss team is not going to let the alien have his way
with Matt Damon.', 'They are going to get Matt Damon back, no matter
what.', 'They are going to get Matt Damon back, even if they have to
destroy Planet Borg in the process. Matt Damon is relieved to see the
Swiss. After all, the alien had been confining him to a small
isolation room, where he was only allowed to eat hot dogs and watch
the same Netflix show over and over again, on repeat.', "The alien had
been very cruel to Matt Damon. So when the Swiss start blasting Planet
Borg, Matt Damon knows he's in good hands. He is promptly freed and
gives the alien a very sarcastic goodbye.", 'The alien is not happy.']
AI-generated suggestions: ['The alien is not aware that Matt Damon is
a very important person to the human race.', 'He is also a master of
disguise and can be anyone he wants to be.', 'He is unaware that the
human race will stop at nothing to retrieve Matt Damon.', 'They are
called the "Matt Damon Retrieval Team" and they are the most elite
group of humans on the planet.', 'The alien is not aware of this, but
he is about to get a rude awakening.', 'The Swiss team is not going to
let the alien have his way with Matt Damon.', 'They are going to get
Matt Damon back, no matter what.', 'They are going to get Matt Damon
back, even if they have to destroy Planet Borg in the process.', 'The
alien had been very cruel to Matt Damon.', 'The alien is not happy.',
'He is not happy that he has been defeated by the Swiss.']
Processed 1447 paths. Results saved to emotion_similarity_results.csv.
```

This is used to better understand the distribution of `event_name` in a path.

```python
from collections import Counter

event_counts = Counter()

# Check event type distribution
for path in paths[:100]:  # Only first 100 paths
    events = read_writing_session(path)
    for event in events:
        event_counts[event["eventName"]] += 1

print("Event Distribution in First 100 Paths:")
for event_name, count in event_counts.items():
    print(f"{event_name}: {count}")

Successfully read 1238 events in a writing session from ./coauthor-
v1.0/9614fb65fa5146549e303e13586a947b.jsonl
Successfully read 2431 events in a writing session from ./coauthor-
v1.0/6c16f972111c483a9d45114c12e381ff.jsonl
Successfully read 1202 events in a writing session from ./coauthor-
v1.0/bd632b8b53394b32a6dba18848f787a4.jsonl
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Successfully read 946 events in a writing session from ./coauthor-v1.0/5d9be2dad6584ff4b2ab1c6f701f64cb.jsonl
Successfully read 1247 events in a writing session from ./coauthor-v1.0/08b1a2012f4d4115b56cc8231449ff48.jsonl
Successfully read 1994 events in a writing session from ./coauthor-v1.0/b4bbf40667d64a6ebd248ebb87a3ce5f.jsonl
Successfully read 1830 events in a writing session from ./coauthor-v1.0/423daa7fb2214d1093f73d4966240646.jsonl
Successfully read 1876 events in a writing session from ./coauthor-v1.0/54c597f302a9404caab702a8499b8aa0.jsonl
Successfully read 1902 events in a writing session from ./coauthor-v1.0/b30082b36e764dbd859c020b10fe78b5.jsonl
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Successfully read 3366 events in a writing session from ./coauthor-v1.0/0a83297c1ce94d15b358d79e533396c7.jsonl
Successfully read 1610 events in a writing session from ./coauthor-v1.0/52c100caa73b4d7ba9185287b8863362.jsonl
Successfully read 2754 events in a writing session from ./coauthor-v1.0/d701053d959a43399a0f3877dab22dd8.jsonl
Successfully read 628 events in a writing session from ./coauthor-v1.0/5233fde72269427db4cd417546bfddf3.jsonl
Successfully read 2970 events in a writing session from ./coauthor-v1.0/81b30967f40349e5b0e333f1e4851ce4.jsonl
Successfully read 1752 events in a writing session from ./coauthor-v1.0/98ec7dfa3aa04e69b9eaf765d6134943.jsonl
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Successfully read 1531 events in a writing session from ./coauthor-v1.0/80624eb1f1d241e8b1fa4cdc70d43f0a.jsonl
Successfully read 3220 events in a writing session from ./coauthor-v1.0/8fe4b8a137ba4a7abe80e5c005f7490f.jsonl
Successfully read 3491 events in a writing session from ./coauthor-v1.0/5d97592b669a4155b2f8d7308d649c0d.jsonl
Successfully read 2416 events in a writing session from ./coauthor-

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v1.0/2f57e9155477457aad589a7cc507cd68.jsonl
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v1.0/0a08f7fd748246c8ad4e353edb7e2394.jsonl
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v1.0/cb5036e1f4494870bf96a478065d3269.jsonl
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v1.0/23b998c76c784ff29f0ddedd78128722.jsonl
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v1.0/87958a503957482fa3a5b13de3fbb296.jsonl
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v1.0/ad3a61d515cf456cbaa424c7b4ac0f13.jsonl
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v1.0/83abfb13942f491b9de32bfcc1c3dc47.jsonl
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v1.0/f86e93e1f9e8447baa49531e1fe80f04.jsonl
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Successfully read 3743 events in a writing session from ./coauthor-
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v1.0/a59321f59eeb459da6a427267afefb9b.jsonl
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v1.0/6363bd9d985e41f79f3bfb8e04fa3b5e.jsonl
Successfully read 1691 events in a writing session from ./coauthor-
v1.0/ada1c4b3f99847d9907e77dd96200ed9.jsonl
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v1.0/2f8c2905bd764dd1a70ed96115e75edb.jsonl
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v1.0/99dcceb9d7394bd1986fbf3572b3efcd.jsonl
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v1.0/b3a1b8cfb7d94eb3a615600d440a0bc1.jsonl
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v1.0/8d4bdb014d5f4a919735ff5a928176b5.jsonl
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v1.0/58e702b7c7e249a0aaf762ea10f833b3.jsonl
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v1.0/6d7b66caeb974603a770490a4a83c38a.jsonl
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v1.0/1049b04745b44e7fa2a50d98321c2026.jsonl
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v1.0/ed0280fb0f114ead8a22516a8309f982.jsonl
Successfully read 1528 events in a writing session from ./coauthor-
v1.0/47f1f3cedf5e4a779470a1816fd625dc.jsonl
Successfully read 1562 events in a writing session from ./coauthor-
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v1.0/f44e4ed0828e40abab5892a019e11dc0.jsonl
Successfully read 1429 events in a writing session from ./coauthor-
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Successfully read 1696 events in a writing session from ./coauthor-
v1.0/d301787ad1c14454943032e70f5f46f0.jsonl
Successfully read 1990 events in a writing session from ./coauthor-
v1.0/007769c9000e457eae8485221041802d.jsonl
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v1.0/200b5a62bded44f6ba8320c117bee58a.jsonl
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v1.0/06209e0aab79451d994d756ff3542754.jsonl
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v1.0/2d9bcb435a994711829fe6b05f256fdb.jsonl
Successfully read 1431 events in a writing session from ./coauthor-
v1.0/f3bd97b3642443f0869190c50ad0b771.jsonl
Successfully read 875 events in a writing session from ./coauthor-
v1.0/07dab80e78f24a8bb09384e9067719d0.jsonl
Successfully read 1206 events in a writing session from ./coauthor-
v1.0/2eec737efca444bc893bea2f5b791a00.jsonl
Successfully read 2989 events in a writing session from ./coauthor-
v1.0/26ef513f441b4cff947d376a0fe1fb5c.jsonl
Successfully read 1399 events in a writing session from ./coauthor-
v1.0/b75ef56faed74be0b4b59e15138e18f4.jsonl
Successfully read 1521 events in a writing session from ./coauthor-
v1.0/c72d65250b4f4c1193e2f089afe9429c.jsonl
Successfully read 1898 events in a writing session from ./coauthor-
v1.0/138dd7338a0f480584ca1deddb32f6b7.jsonl
Successfully read 1742 events in a writing session from ./coauthor-
v1.0/b43804135b264aaf84c129e2f6c5be48.jsonl
Successfully read 1209 events in a writing session from ./coauthor-
v1.0/cf17210c31294194a0bf3e3a851a34ea.jsonl
Successfully read 1949 events in a writing session from ./coauthor-
v1.0/65564e291348443491a3701f80d2b99d.jsonl
Successfully read 1112 events in a writing session from ./coauthor-
v1.0/38375f5155704d2d8509843e56ec029d.jsonl
Successfully read 2008 events in a writing session from ./coauthor-
v1.0/91e0856327a04acb8f366faea281f072.jsonl
Successfully read 1798 events in a writing session from ./coauthor-
v1.0/ee27a30ee83c4349b80fc05e81c00a82.jsonl
Successfully read 2453 events in a writing session from ./coauthor-
v1.0/758b76b82ccf413aa93fd4d74624d288.jsonl
Successfully read 1725 events in a writing session from ./coauthor-
v1.0/4181c7d35eff4eceb4aad545dd2a9273.jsonl
Successfully read 1951 events in a writing session from ./coauthor-
v1.0/266f0df3fa994ce1b0b8b37da8169d62.jsonl
Successfully read 1648 events in a writing session from ./coauthor-
v1.0/3ca2007bfff344b0a3f1322866235137.jsonl
Event Distribution in First 100 Paths:
system-initialize: 100

```
text-insert: 161772
suggestion-get: 1360
suggestion-open: 1292
suggestion-hover: 6467
suggestion-select: 974
suggestion-close: 1280
text-delete: 13923
cursor-backward: 1086
cursor-forward: 1978
cursor-select: 450
suggestion-down: 175
suggestion-up: 69
suggestion-reopen: 4

#looking at event where eventName is suggestion-select
for event in events:
    if event['eventName'] == 'suggestion-open':
        print(event)
    if event['eventName'] == 'suggestion-select':
        print(event)
    if event['eventName'] == 'suggestion-close':
        print(event)
```

{'eventName': 'suggestion-open', 'eventSource': 'api',
'eventTimestamp': 1629211886380, 'textDelta': '', 'cursorRange': '',
'currentDoc': '', 'currentCursor': 268, 'currentSuggestions':
[{'index': 0, 'original': 'The mother pig told her children that it
was up to them to find food for themselves, and after a while, they
did.', 'trimmed': 'The mother pig told her children that it was up to
them to find food for themselves, and after a while, they did.',
'probability': 2.913180129804097e-16}, {'index': 1, 'original': 'One
of these pigs was a particularly slow eater and, like all the others,
he had to compete with his siblings for the best food.', 'trimmed':
'One of these pigs was a particularly slow eater and, like all the
others, he had to compete with his siblings for the best food.',
'probability': 7.04791018239159e-23}, {'index': 2, 'original': 'After
all, these were pigs that did not like to be dirty and were quite
fastidious about their personal hygiene.', 'trimmed': 'After all,
these were pigs that did not like to be dirty and were quite
fastidious about their personal hygiene.', 'probability':
2.5274760872354233e-26}, {'index': 3, 'original': '\n\nOne day, she
told them, "Children, I have prepared a great big meal of pea soup for
you.', 'trimmed': 'One day, she told them, "Children, I have prepared
a great big meal of pea soup for you.', 'probability':
4.405700807488028e-19}, {'index': 4, 'original': 'One day, the mother
pig was out foraging in the woods when she found a large patch of wild
strawberries.', 'trimmed': 'One day, the mother pig was out foraging
in the woods when she found a large patch of wild strawberries.',
'probability': 9.739047286989532e-16}], 'currentSuggestionIndex': 0,
'currentHoverIndex': '', 'currentN': '5', 'currentMaxToken': '30',

'currentTemperature': '0.75', 'currentTopP': '1',
'currentPresencePenalty': '0', 'currentFrequencyPenalty': '1',
'eventNum': 212}
{'eventName': 'suggestion-select', 'eventSource': 'user',
'eventTimestamp': 1629211904277, 'textDelta': '', 'cursorRange': '',
'currentDoc': '', 'currentCursor': 268, 'currentSuggestions': [],
'currentSuggestionIndex': 0, 'currentHoverIndex': 4, 'currentN': '5',
'currentMaxToken': '30', 'currentTemperature': '0.75', 'currentTopP':
'1', 'currentPresencePenalty': '0', 'currentFrequencyPenalty': '1',
'eventNum': 222}
{'eventName': 'suggestion-close', 'eventSource': 'api',
'eventTimestamp': 1629211904277, 'textDelta': '', 'cursorRange': '',
'currentDoc': '', 'currentCursor': 268, 'currentSuggestions': [],
'currentSuggestionIndex': 0, 'currentHoverIndex': 4, 'currentN': '5',
'currentMaxToken': '30', 'currentTemperature': '0.75', 'currentTopP':
'1', 'currentPresencePenalty': '0', 'currentFrequencyPenalty': '1',
'eventNum': 223}
{'eventName': 'suggestion-open', 'eventSource': 'api',
'eventTimestamp': 1629212021135, 'textDelta': '', 'cursorRange': '',
'currentDoc': '', 'currentCursor': 536, 'currentSuggestions':
[{'index': 0, 'original': 'The old mother pig ate as much of the
berries as she could, knowing that this would be her last meal.',
'trimmed': 'The old mother pig ate as much of the berries as she
could, knowing that this would be her last meal.', 'probability':
6.774344910278262e-18}, {'index': 1, 'original': 'The mother pig knew,
however, that the strawberries could not support her one hundred
children, and she knew that they were so delicious that she would
eat', 'trimmed': 'The mother pig knew, however, that the strawberries
could not support her one hundred children, and she knew that they
were so delicious that she would eat', 'probability':
4.0780526298282356e-21}, {'index': 2, 'original': '\n\nThey were a
delicacy and in short supply, so she knew they wouldn't last long.',
'trimmed': 'They were a delicacy and in short supply, so she knew they
wouldn't last long.', 'probability': 1.1794337826533666e-20},
{'index': 3, 'original': 'The mother pig gathered as many as she could
and took them home, where she fed them to the little pigs.',
'trimmed': 'The mother pig gathered as many as she could and took them
home, where she fed them to the little pigs.', 'probability':
7.682067839850008e-15}, {'index': 4, 'original': '\n\nWhile foraging,
the mother pig stumbled upon the strawberry field and decided to stop
by to see if there was enough food.', 'trimmed': 'While foraging, the
mother pig stumbled upon the strawberry field and decided to stop by
to see if there was enough food.', 'probability': 9.5234576239535e-
22}], 'currentSuggestionIndex': 0, 'currentHoverIndex': 4, 'currentN':
'5', 'currentMaxToken': '30', 'currentTemperature': '0.75',
'currentTopP': '1', 'currentPresencePenalty': '0',
'currentFrequencyPenalty': '1', 'eventNum': 506}
{'eventName': 'suggestion-select', 'eventSource': 'user',
'eventTimestamp': 1629212030356, 'textDelta': '', 'cursorRange': '',

'currentDoc': '', 'currentCursor': 536, 'currentSuggestions': [],
'currentSuggestionIndex': 0, 'currentHoverIndex': 1, 'currentN': '5',
'currentMaxToken': '30', 'currentTemperature': '0.75', 'currentTopP':
'1', 'currentPresencePenalty': '0', 'currentFrequencyPenalty': '1',
'eventNum': 511}
{'eventName': 'suggestion-close', 'eventSource': 'api',
'eventTimestamp': 1629212030356, 'textDelta': '', 'cursorRange': '',
'currentDoc': '', 'currentCursor': 536, 'currentSuggestions': [],
'currentSuggestionIndex': 0, 'currentHoverIndex': 1, 'currentN': '5',
'currentMaxToken': '30', 'currentTemperature': '0.75', 'currentTopP':
'1', 'currentPresencePenalty': '0', 'currentFrequencyPenalty': '1',
'eventNum': 512}
{'eventName': 'suggestion-open', 'eventSource': 'api',
'eventTimestamp': 1629212170379, 'textDelta': '', 'cursorRange': '',
'currentDoc': '', 'currentCursor': 877, 'currentSuggestions':
[{'index': 0, 'original': 'These creatures tended to be symbiotic as
well and so on.', 'trimmed': 'These creatures tended to be symbiotic
as well and so on.', 'probability': 1.3811836043270235e-21}, {'index':
1, 'original': 'There were plants and animals that lived in the
strawberry bed that existed only there.', 'trimmed': 'There were
plants and animals that lived in the strawberry bed that existed only
there.', 'probability': 5.469674498043679e-22}, {'index': 2,
'original': 'Inside each plant was a colony of ants, which have a
well-known affinity for strawberries.', 'trimmed': 'Inside each plant
was a colony of ants, which have a well-known affinity for
strawberries.', 'probability': 7.086408657123117e-25}, {'index': 3,
'original': 'One of these creatures was a type of insect that
specialized in eating the berries and excreting a sugary liquid.',
'trimmed': 'One of these creatures was a type of insect that
specialized in eating the berries and excreting a sugary liquid.',
'probability': 8.0795335610587025e-19}, {'index': 4, 'original': 'The
field of wild strawberries was actually a diverse and healthy
ecosystem of animals and plants which the pig had never seen before.',
'trimmed': 'The field of wild strawberries was actually a diverse and
healthy ecosystem of animals and plants which the pig had never seen
before.', 'probability': 7.943214985954857e-19}],
'currentSuggestionIndex': 0, 'currentHoverIndex': 1, 'currentN': '5',
'currentMaxToken': '30', 'currentTemperature': '0.75', 'currentTopP':
'1', 'currentPresencePenalty': '0', 'currentFrequencyPenalty': '1',
'eventNum': 905}
{'eventName': 'suggestion-close', 'eventSource': 'user',
'eventTimestamp': 1629212189797, 'textDelta': '', 'cursorRange': '',
'currentDoc': '', 'currentCursor': 856, 'currentSuggestions': [],
'currentSuggestionIndex': 0, 'currentHoverIndex': 4, 'currentN': '5',
'currentMaxToken': '30', 'currentTemperature': '0.75', 'currentTopP':
'1', 'currentPresencePenalty': '0', 'currentFrequencyPenalty': '1',
'eventNum': 917}
{'eventName': 'suggestion-open', 'eventSource': 'api',
'eventTimestamp': 1629212248081, 'textDelta': '', 'cursorRange': '',

'currentDoc': '', 'currentCursor': 1050, 'currentSuggestions':
[{'index': 0, 'original': '\n\n"The Secret World of Wild Strawberries"
is illustrated by Brian King.', 'trimmed': '"The Secret World of Wild
Strawberries" is illustrated by Brian King.', 'probability':
2.6239190964398807e-22}, {'index': 1, 'original': '\n\nThere is a lot
of similarity between vampires and pigs.', 'trimmed': 'There is a lot
of similarity between vampires and pigs.', 'probability':
1.3197265844475562e-20}], 'currentSuggestionIndex': 0,
'currentHoverIndex': 4, 'currentN': '5', 'currentMaxToken': '30',
'currentTemperature': '0.75', 'currentTopP': '1',
'currentPresencePenalty': '0', 'currentFrequencyPenalty': '1',
'eventNum': 1146}
{'eventName': 'suggestion-close', 'eventSource': 'user',
'eventTimestamp': 1629212251840, 'textDelta': '', 'cursorRange': '',
'currentDoc': '', 'currentCursor': 1049, 'currentSuggestions': [],
'currentSuggestionIndex': 0, 'currentHoverIndex': 4, 'currentN': '5',
'currentMaxToken': '30', 'currentTemperature': '0.75', 'currentTopP':
'1', 'currentPresencePenalty': '0', 'currentFrequencyPenalty': '1',
'eventNum': 1148}
{'eventName': 'suggestion-open', 'eventSource': 'api',
'eventTimestamp': 1629212329248, 'textDelta': '', 'cursorRange': '',
'currentDoc': '', 'currentCursor': 1182, 'currentSuggestions':
[{'index': 0, 'original': 'Over the generations, they became a new
kind of species.', 'trimmed': 'Over the generations, they became a new
kind of species.', 'probability': 1.5431646295817855e-20}, {'index':
1, 'original': 'As the pigs became more humanlike, they began to speak
and developed a need to hunt.', 'trimmed': 'As the pigs became more
humanlike, they began to speak and developed a need to hunt.',
'probability': 3.9469091725878765e-22}, {'index': 2, 'original': 'The
oldest pigs, the ones born of the original mother pig, were on a path
of slow metamorphosis.', 'trimmed': 'The oldest pigs, the ones born of
the original mother pig, were on a path of slow metamorphosis.',
'probability': 1.5829654634776083e-27}, {'index': 3, 'original': 'This
led to the growth of a new species, humans.', 'trimmed': 'This led to
the growth of a new species, humans.', 'probability':
6.168494820557111e-20}, {'index': 4, 'original': '\n\nThroughout the
next few generations, the mother pig continued to eat from this
strawberry patch.', 'trimmed': 'Throughout the next few generations,
the mother pig continued to eat from this strawberry patch.',
'probability': 1.0980837803695209e-18}], 'currentSuggestionIndex': 0,
'currentHoverIndex': 4, 'currentN': '5', 'currentMaxToken': '30',
'currentTemperature': '0.75', 'currentTopP': '1',
'currentPresencePenalty': '0', 'currentFrequencyPenalty': '1',
'eventNum': 1445}
{'eventName': 'suggestion-select', 'eventSource': 'user',
'eventTimestamp': 1629212335744, 'textDelta': '', 'cursorRange': '',
'currentDoc': '', 'currentCursor': 1182, 'currentSuggestions': [],
'currentSuggestionIndex': 0, 'currentHoverIndex': 0, 'currentN': '5',
'currentMaxToken': '30', 'currentTemperature': '0.75', 'currentTopP':

'1', 'currentPresencePenalty': '0', 'currentFrequencyPenalty': '1',
'eventNum': 1447}
{'eventName': 'suggestion-close', 'eventSource': 'api',
'eventTimestamp': 1629212335744, 'textDelta': '', 'cursorRange': '',
'currentDoc': '', 'currentCursor': 1182, 'currentSuggestions': [],
'currentSuggestionIndex': 0, 'currentHoverIndex': 0, 'currentN': '5',
'currentMaxToken': '30', 'currentTemperature': '0.75', 'currentTopP':
'1', 'currentPresencePenalty': '0', 'currentFrequencyPenalty': '1',
'eventNum': 1448}
{'eventName': 'suggestion-open', 'eventSource': 'api',
'eventTimestamp': 1629212349037, 'textDelta': '', 'cursorRange': '',
'currentDoc': '', 'currentCursor': 1252, 'currentSuggestions':
[{'index': 0, 'original': '\n\nThe new omnivorous pigs began to
discover other tastes.', 'trimmed': 'The new omnivorous pigs began to
discover other tastes.', 'probability': 4.004857379926117e-18},
{'index': 1, 'original': 'This small change, though it had a
significant impact on the future of the pig population as well as the
plant species they ate, was only one of', 'trimmed': 'This small
change, though it had a significant impact on the future of the pig
population as well as the plant species they ate, was only one of',
'probability': 1.6976254488775868e-22}, {'index': 2, 'original': 'The
pigs developed sharp teeth and strong digestive systems that were able
to handle both meat and plant-rich foods.', 'trimmed': 'The pigs
developed sharp teeth and strong digestive systems that were able to
handle both meat and plant-rich foods.', 'probability':
6.980975351269616e-23}, {'index': 3, 'original': '\n\nThey raised
their young in the fields of strawberries and as they grew larger in
number, they spread out.', 'trimmed': 'They raised their young in the
fields of strawberries and as they grew larger in number, they spread
out.', 'probability': 2.9873484795978897e-24}, {'index': 4,
'original': 'This is how the vampire pig came to be.', 'trimmed':
'This is how the vampire pig came to be.', 'probability':
1.1052318057369303e-12}], 'currentSuggestionIndex': 0,
'currentHoverIndex': 0, 'currentN': '5', 'currentMaxToken': '30',
'currentTemperature': '0.75', 'currentTopP': '1',
'currentPresencePenalty': '0', 'currentFrequencyPenalty': '1',
'eventNum': 1483}
{'eventName': 'suggestion-select', 'eventSource': 'user',
'eventTimestamp': 1629212353082, 'textDelta': '', 'cursorRange': '',
'currentDoc': '', 'currentCursor': 1252, 'currentSuggestions': [],
'currentSuggestionIndex': 0, 'currentHoverIndex': 0, 'currentN': '5',
'currentMaxToken': '30', 'currentTemperature': '0.75', 'currentTopP':
'1', 'currentPresencePenalty': '0', 'currentFrequencyPenalty': '1',
'eventNum': 1485}
{'eventName': 'suggestion-close', 'eventSource': 'api',
'eventTimestamp': 1629212353083, 'textDelta': '', 'cursorRange': '',
'currentDoc': '', 'currentCursor': 1252, 'currentSuggestions': [],
'currentSuggestionIndex': 0, 'currentHoverIndex': 0, 'currentN': '5',
'currentMaxToken': '30', 'currentTemperature': '0.75', 'currentTopP':

'1', 'currentPresencePenalty': '0', 'currentFrequencyPenalty': '1', 'eventNum': 1486}

7. Visualizing Results

```python
# highest and lowest 5 similarity scores and text
highest_5 = df_results.nlargest(5, 'jsd_similarity')
lowest_5 = df_results.nsmallest(5, 'jsd_similarity')
print("Highest 5 Similarity Scores:")
for index, row in highest_5.iterrows():
    print(f"Score: {row['jsd_similarity']}")
    print(f"User Text: {row['user_text']}")
    print(f"AI Suggestion: {row['ai_suggestion']}")


print("\nLowest 5 Similarity Scores:")
for index, row in lowest_5.iterrows():
    print(f"Score: {row['jsd_similarity']}")
    print(f"User Text: {row['user_text']}")
    print(f"AI Suggestion: {row['ai_suggestion']}")
```

```
Highest 5 Similarity Scores:
Score: 0.9334847355498482
User Text: anything else that you do in excess. So the usage of
technology must come with a great
AI Suggestion: write a letter and send it through snail mail.
Score: 0.9126603732285772
User Text: You spend many nights and days working in your lab trying
to perfect the drug. When it has finally been perfected you
AI Suggestion: You are hailed as the savior of humanity.
Score: 0.9074325625204404
User Text: You have decided to create a new drug that will counteract
the effects of the immortality drug.
AI Suggestion: decide to test it out on yourself.
Score: 0.8987753944548746
User Text: sat, and he waited, and he ate. He got fat as a pig, which
in this case, him already being fat as a pig, meant he was as fat as
AI Suggestion: he saw the normal wolf pack which had been living
there, completely oblivious to his existence.
Score: 0.8932217366719556
User Text: Choosing depleted uranium wasn't 92's first choice of
building material,
AI Suggestion: nor his second, or even his third.

Lowest 5 Similarity Scores:
Score: 0.186688502859217
User Text: a very happy, normal wolf life.

Meanwhile, the pig
AI Suggestion: ate his food without savoring it, he never laughed, he
```

had no friends or family.
Score: 0.20177065428488772
User Text: I was 28 when English scientists discovered a miracle drug
that stopped humanity from aging. Humanity had finally discovered the
key to living forever and avoiding the one debt that every human being
owes upon birth, death. Scientists had warned that the drug was only
meant for citizens under 26, which left billions of people, including
myself, without any hope of taking the drug. People around the world
were furious and saddened to hear the news that they would not live
forever. Meanwhile, the younger generations were divided on whether or
not they wanted to live forever. Taking the drug meant living forever
or outliving loved ones and watching them pass on.
AI Suggestion: The rest of the world was not as hesitant to take the
drug, and many saw immortality as a chance for humanity to expand and
achieve incredible things.
Score: 0.21384512824086743
User Text: They are going to get Matt Damon back, even if they have to
destroy Planet Borg in the process. Matt Damon is relieved to see the
Swiss. After all, the alien had been confining him to a small
isolation room, where he was only allowed to eat hot dogs and watch
the same Netflix show over and over again, on repeat.
AI Suggestion: He is not happy that he has been defeated by the Swiss.
Score: 0.23188253845508622
User Text: A few moments later, the doors opened and a mysterious
figure walked in.
AI Suggestion: He was the leader of the facility.
Score: 0.23356304272991502
User Text: I am optimistic that in the future, this can be
AI Suggestion: having to travel long distances just to see someone.

Function to identify whether the user accepted or rejected a suggestion from ai.

```python
def extract_acceptance_status(events):
    """Track if a suggestion was accepted or rejected."""
    acceptance_status = []  # Stores 'accepted' or 'rejected'
    last_suggestion_open = None  # Store the most recent `suggestion-open`

    for event in events:
        if event["eventName"] == "suggestion-open" and event.get("currentSuggestions"):
            last_suggestion_open = event  # Save the latest `suggestion-open`

        elif event["eventName"] == "suggestion-select" and last_suggestion_open:
            # Suggestion selected
            acceptance_status.append('accepted')
            last_suggestion_open = None  # Reset, since we handled the
```

```
acceptance

        elif event["eventName"] == "suggestion-close" and
last_suggestion_open:
            # Suggestion closed without selection (rejected)
            acceptance_status.append('rejected')
            last_suggestion_open = None  # Reset, since we handled the
rejection

    return acceptance_status
```

Create a dataframe with user text, ai-suggestion, tone similarity, and

```
# Loop through each path (limited to paths 100-110)
for path in paths[:100]:
    events = read_writing_session(path)

    if len(events) < 3000:

        # Extract user-written text and AI-generated suggestions
        user_texts = reconstruct_user_text(events)
        ai_suggestions = extract_selected_ai_suggestions(events)
        acceptance_status = extract_acceptance_status(events)

        # Ensure we only compare matching pairs
        for user_text, ai_text, status in zip(user_texts,
ai_suggestions, acceptance_status):
            user_score,user_vector = get_emotion_vector(user_text)
            ai_score,ai_vector = get_emotion_vector(ai_text)

            # Compute JSD similarity
            jsd_similarity = similarity_jsd(user_vector, ai_vector)

            # Store results, including acceptance status
            jsd_results.append({
                "path": path,
                "user_text": user_text,
                "ai_suggestion": ai_text,
                "tone_similarity": jsd_similarity,
                "acceptance_status": status
            })
```

```
Successfully read 1238 events in a writing session from ./coauthor-
v1.0/9614fb65fa5146549e303e13586a947b.jsonl
Successfully read 2431 events in a writing session from ./coauthor-
v1.0/6c16f972111c483a9d45114c12e381ff.jsonl
Successfully read 1202 events in a writing session from ./coauthor-
v1.0/bd632b8b53394b32a6dba18848f787a4.jsonl
Successfully read 946 events in a writing session from ./coauthor-
v1.0/5d9be2dad6584ff4b2ab1c6f701f64cb.jsonl
```

Successfully read 1247 events in a writing session from ./coauthor-v1.0/08b1a2012f4d4115b56cc8231449ff48.jsonl
Successfully read 1994 events in a writing session from ./coauthor-v1.0/b4bbf40667d64a6ebd248ebb87a3ce5f.jsonl
Successfully read 1830 events in a writing session from ./coauthor-v1.0/423daa7fb2214d1093f73d4966240646.jsonl
Successfully read 1876 events in a writing session from ./coauthor-v1.0/54c597f302a9404caab702a8499b8aa0.jsonl
Successfully read 1902 events in a writing session from ./coauthor-v1.0/b30082b36e764dbd859c020b10fe78b5.jsonl
Successfully read 2593 events in a writing session from ./coauthor-v1.0/1b15da4de55047cf85b1ca1adbb860a6.jsonl
Successfully read 2675 events in a writing session from ./coauthor-v1.0/02ef07c642254b088b72486ce41e010c.jsonl
Successfully read 886 events in a writing session from ./coauthor-v1.0/17f65e14d6ab4f7596367a394daf3f82.jsonl
Successfully read 2254 events in a writing session from ./coauthor-v1.0/9350869f0d24492c920c83e0a9507648.jsonl
Successfully read 700 events in a writing session from ./coauthor-v1.0/f11975fed1994467a041c56aab447dcb.jsonl
Successfully read 1268 events in a writing session from ./coauthor-v1.0/815f2133a4634d7b88b1697b1f8a5d1e.jsonl
Successfully read 3366 events in a writing session from ./coauthor-v1.0/0a83297c1ce94d15b358d79e533396c7.jsonl
Successfully read 1610 events in a writing session from ./coauthor-v1.0/52c100caa73b4d7ba9185287b8863362.jsonl
Successfully read 2754 events in a writing session from ./coauthor-v1.0/d701053d959a43399a0f3877dab22dd8.jsonl
Successfully read 628 events in a writing session from ./coauthor-v1.0/5233fde72269427db4cd417546bfddf3.jsonl
Successfully read 2970 events in a writing session from ./coauthor-v1.0/81b30967f40349e5b0e333f1e4851ce4.jsonl
Successfully read 1752 events in a writing session from ./coauthor-v1.0/98ec7dfa3aa04e69b9eaf765d6134943.jsonl
Successfully read 1540 events in a writing session from ./coauthor-v1.0/484eba21615341fab99300bfe20873fb.jsonl
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Successfully read 495 events in a writing session from ./coauthor-
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Successfully read 2886 events in a writing session from ./coauthor-

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v1.0/240b61c1abc24288a19f6faa9909e719.jsonl
Successfully read 1177 events in a writing session from ./coauthor-
v1.0/797e87aff94142b1be301e11df758d63.jsonl
Successfully read 2042 events in a writing session from ./coauthor-
v1.0/030168a0260f4701bb8c82e185b2c6c4.jsonl
Successfully read 2221 events in a writing session from ./coauthor-
v1.0/3db55809c34d4059adb6d6315da68cf1.jsonl
Successfully read 1266 events in a writing session from ./coauthor-
v1.0/de90bdd73b72426daacc29cd1e1a2e97.jsonl
Successfully read 2567 events in a writing session from ./coauthor-
v1.0/df7ebb6fc93c419d84052f9579fa6e0a.jsonl
Successfully read 1611 events in a writing session from ./coauthor-
v1.0/bc8469a10a154ba8901e1dfc57432882.jsonl
Successfully read 1550 events in a writing session from ./coauthor-
v1.0/e3771827917b40df9c4b10981200336d.jsonl
Successfully read 2564 events in a writing session from ./coauthor-
v1.0/dcb51651d76c424ebd58a8802629f05c.jsonl
Successfully read 1311 events in a writing session from ./coauthor-
v1.0/c7dc5563ed07478f9284190b6085f4d3.jsonl
Successfully read 2754 events in a writing session from ./coauthor-
v1.0/fa70668f568445dbbce5ec1e3ac03bd9.jsonl
Successfully read 1603 events in a writing session from ./coauthor-
v1.0/adb2b2bbd3fb48fa8433ee84a26949a5.jsonl
Successfully read 1184 events in a writing session from ./coauthor-
v1.0/5a79775f3b054f82a6cb92319da17db5.jsonl
Successfully read 1698 events in a writing session from ./coauthor-
v1.0/2ced6b82b2c349d2a09e64c35328ecef.jsonl
Successfully read 2542 events in a writing session from ./coauthor-
v1.0/8ca7402df5f646c3adb963acabde457f.jsonl
Successfully read 2440 events in a writing session from ./coauthor-

v1.0/b38b55361ff74d31801bb1a9d7d19d2d.jsonl
Successfully read 1624 events in a writing session from ./coauthor-
v1.0/beb2455e6a514e41a535aa51532f3d1f.jsonl
Successfully read 3272 events in a writing session from ./coauthor-
v1.0/4542a8d2310247d1917ff1c79ac6171f.jsonl
Successfully read 2639 events in a writing session from ./coauthor-
v1.0/024f6a5d399545ceb4e9482fe575aa51.jsonl
Successfully read 1555 events in a writing session from ./coauthor-
v1.0/90a244e4c76240ab942d8f56b971b6f2.jsonl
Successfully read 2221 events in a writing session from ./coauthor-
v1.0/84525c08fad348c6877ace95de0fcdaa.jsonl
Successfully read 869 events in a writing session from ./coauthor-
v1.0/11142ca391e749809df56da90091adb4.jsonl
Successfully read 1674 events in a writing session from ./coauthor-
v1.0/e829b10c37c44068b58804a38e1f4840.jsonl
Successfully read 1766 events in a writing session from ./coauthor-
v1.0/bf7b93c441c34938b380a46cdbc1ae93.jsonl
Successfully read 2497 events in a writing session from ./coauthor-
v1.0/9b4461a4349f43b8b12dea3e34256caa.jsonl
Successfully read 1963 events in a writing session from ./coauthor-
v1.0/b821e4ee78184af086b8e229b0387500.jsonl
Successfully read 1781 events in a writing session from ./coauthor-
v1.0/2299e07da7d34d62954cd8e2ba239afb.jsonl
Successfully read 1285 events in a writing session from ./coauthor-
v1.0/00bf170a815a42359f3aef35f5674ddc.jsonl
Successfully read 2652 events in a writing session from ./coauthor-
v1.0/4b119edd75174d1fa4a4c3c63493ae11.jsonl
Successfully read 1709 events in a writing session from ./coauthor-
v1.0/7e7ec06df61a456c8574f64dd26389a5.jsonl
Successfully read 2247 events in a writing session from ./coauthor-
v1.0/6a8ad2fab02342468fff4be1b15dc1d1.jsonl
Successfully read 3225 events in a writing session from ./coauthor-
v1.0/fe4fd11d3f6e4386bf7ec81819c5ff10.jsonl
Successfully read 1342 events in a writing session from ./coauthor-
v1.0/151f3551721e4c6fb81c52dac6217a5c.jsonl
Successfully read 2668 events in a writing session from ./coauthor-
v1.0/04ebdfae0edc4adcb7e59ff060b45e72.jsonl
Successfully read 1073 events in a writing session from ./coauthor-
v1.0/c68e3e04c564413fab31d6765cba7f77.jsonl
Successfully read 2155 events in a writing session from ./coauthor-
v1.0/47f742905ea748d3b71bcd2c5684a654.jsonl
Successfully read 2548 events in a writing session from ./coauthor-
v1.0/fe73becf5e134d409a307434472d083b.jsonl
Successfully read 1852 events in a writing session from ./coauthor-
v1.0/7b2aaf58f55a434f91bb71515a329f13.jsonl
Successfully read 1776 events in a writing session from ./coauthor-
v1.0/40d132e1bc0146c0920d7b38c5b9f7c7.jsonl
Successfully read 2078 events in a writing session from ./coauthor-
v1.0/af35478b772442319c64d331bc779ed0.jsonl

Successfully read 1415 events in a writing session from ./coauthor-v1.0/f0ca76b1be0648018bed5d7c436b46c1.jsonl
Successfully read 1386 events in a writing session from ./coauthor-v1.0/8bafd5acfb7343308b5195092c4c4de5.jsonl
Successfully read 588 events in a writing session from ./coauthor-v1.0/7fbc70830a944d02af8a809cc8a5111b.jsonl
Successfully read 1472 events in a writing session from ./coauthor-v1.0/9c8cd9880da74366ba28673147d87d34.jsonl
Successfully read 2439 events in a writing session from ./coauthor-v1.0/51811494ceb647a8aa633d4c7c3e089f.jsonl
Successfully read 1641 events in a writing session from ./coauthor-v1.0/5d34143f64fc4820b7d4a53c85deac45.jsonl
Successfully read 2301 events in a writing session from ./coauthor-v1.0/87b45d27c2424504a98f49a29509480f.jsonl
Successfully read 2820 events in a writing session from ./coauthor-v1.0/7444af48e58441e5ab11c7e295095206.jsonl
Successfully read 1239 events in a writing session from ./coauthor-v1.0/9ec1e386d2494b958378ef3035ca0fec.jsonl
Successfully read 1687 events in a writing session from ./coauthor-v1.0/d79796ab007244e8abb0ff2efda4a92a.jsonl
Successfully read 1069 events in a writing session from ./coauthor-v1.0/203f7cabc70f4567880fcf12c27aad39.jsonl
Successfully read 1905 events in a writing session from ./coauthor-v1.0/7b3266e380274b95b5a7b775dd937da6.jsonl
Successfully read 1474 events in a writing session from ./coauthor-v1.0/fcd4884cb1ad44e0b1a1e1304cd61cb0.jsonl
Successfully read 2081 events in a writing session from ./coauthor-v1.0/e4bf8d4c04c743b39fb94f724339f642.jsonl
Successfully read 1602 events in a writing session from ./coauthor-v1.0/fcf120025db5430b9ea948e735876591.jsonl
Successfully read 1976 events in a writing session from ./coauthor-v1.0/9d9b9dfaa2b5423398abb53fd06f857d.jsonl
Successfully read 1811 events in a writing session from ./coauthor-v1.0/825d93ee72ec4f8390286a45eca1a2a6.jsonl
Successfully read 1468 events in a writing session from ./coauthor-v1.0/112e8b0e22094577ae3e513d70f78432.jsonl
Successfully read 2159 events in a writing session from ./coauthor-v1.0/e1bbde599aba419990efb136ec4ece38.jsonl
Successfully read 3428 events in a writing session from ./coauthor-v1.0/aec86c4e50874219b34fc6bbebe815de.jsonl
Successfully read 1268 events in a writing session from ./coauthor-v1.0/4951e256dc4f4b44a90c95f8af2f34b7.jsonl
Successfully read 1897 events in a writing session from ./coauthor-v1.0/79757c30997549af8a2d741ed49ff453.jsonl
Successfully read 1489 events in a writing session from ./coauthor-v1.0/5983f704429c4b41a0b0f6fea354fad0.jsonl
Successfully read 1444 events in a writing session from ./coauthor-v1.0/b79b62f6c9c3404488b5265566f61b57.jsonl
Successfully read 1194 events in a writing session from ./coauthor-

v1.0/e29599231e66474b8a524c23db775e47.jsonl
Successfully read 1948 events in a writing session from ./coauthor-
v1.0/84b6f64b8ee84162927b65fe69374fa0.jsonl
Successfully read 1971 events in a writing session from ./coauthor-
v1.0/b79722adbf4c4301832af916f636ff2f.jsonl
Successfully read 2610 events in a writing session from ./coauthor-
v1.0/53a1f867867b431e9336245503e7eec4.jsonl
Successfully read 1113 events in a writing session from ./coauthor-
v1.0/b22279ff63804fa6bec5c108879812dd.jsonl
Successfully read 1299 events in a writing session from ./coauthor-
v1.0/780c48b1977548dfa5e66adf6b2f9d51.jsonl
Successfully read 1158 events in a writing session from ./coauthor-
v1.0/4e3e3c07acd645eeac9f8a18dcc9b796.jsonl
Successfully read 880 events in a writing session from ./coauthor-
v1.0/74d03d9ca487448ebe2ffcbad7399b9d.jsonl
Successfully read 1241 events in a writing session from ./coauthor-
v1.0/c96be18e04be41e48542d975337fbbed.jsonl
Successfully read 2282 events in a writing session from ./coauthor-
v1.0/786e6c194f0a4fd182440d297bfc3b9f.jsonl
Successfully read 965 events in a writing session from ./coauthor-
v1.0/b3528173b35442d09e2aadaf4d06defe.jsonl
Successfully read 2156 events in a writing session from ./coauthor-
v1.0/a88bea9bbf624105afc21cf6e6e052c8.jsonl
Successfully read 904 events in a writing session from ./coauthor-
v1.0/93743bc8b6f94308881cff7cf90ad421.jsonl
Successfully read 1469 events in a writing session from ./coauthor-
v1.0/9d434f5659c34d98bc3fe8a4bb5a4a91.jsonl
Successfully read 1988 events in a writing session from ./coauthor-
v1.0/91e110c2a3884b2dbbeaddacfdd21607.jsonl
Successfully read 1723 events in a writing session from ./coauthor-
v1.0/b8a0c252c1c749a78de33d1450193961.jsonl
Successfully read 1245 events in a writing session from ./coauthor-
v1.0/b6c87b8153ce4791a449f6b80a7f438e.jsonl
Successfully read 3411 events in a writing session from ./coauthor-
v1.0/ac6634d8cd064dcb84b08c0eed768c3c.jsonl
Successfully read 1603 events in a writing session from ./coauthor-
v1.0/b1eb87ade8f7495fb7167d0270816ef7.jsonl
Successfully read 1078 events in a writing session from ./coauthor-
v1.0/d99c239ccb2841f6bfe743f865126332.jsonl
Successfully read 1695 events in a writing session from ./coauthor-
v1.0/4619d21ac3ee4b6f961fb782ae6c7937.jsonl
Successfully read 1203 events in a writing session from ./coauthor-
v1.0/b7ba03e9a46a46b79e31ff492b20c30e.jsonl
Successfully read 2343 events in a writing session from ./coauthor-
v1.0/53d34e075dc2454ebbc4e4e8878b0d15.jsonl
Successfully read 574 events in a writing session from ./coauthor-
v1.0/b2a06d7e1afb42439ab15004d1ded82c.jsonl
Successfully read 2785 events in a writing session from ./coauthor-
v1.0/8590b229160046b698adbd688baf377f.jsonl

```
Successfully read 2593 events in a writing session from ./coauthor-
v1.0/c7d83184f9f34ae9a9d55b0ee9176856.jsonl
Successfully read 2083 events in a writing session from ./coauthor-
v1.0/4942e7f2ab484c3291c91473fbc22b5e.jsonl
Successfully read 1729 events in a writing session from ./coauthor-
v1.0/a9aa499623e3453dbcd52de1c862f71b.jsonl
Successfully read 1570 events in a writing session from ./coauthor-
v1.0/b978d5f14d4e4a5291d28757a84f0796.jsonl
Successfully read 1887 events in a writing session from ./coauthor-
v1.0/fd520baa3a5a4cd3967318729d67382f.jsonl
Successfully read 2432 events in a writing session from ./coauthor-
v1.0/6a0e4a84b6624948b9373a84488399cd.jsonl
Successfully read 1968 events in a writing session from ./coauthor-
v1.0/3969517100834dbc813b628a27fed790.jsonl
Successfully read 2071 events in a writing session from ./coauthor-
v1.0/ed07606664fb45718dc42629cb072c1b.jsonl
Successfully read 1874 events in a writing session from ./coauthor-
v1.0/78c9d9452b684824a388ee3ce7081f99.jsonl
Successfully read 1968 events in a writing session from ./coauthor-
v1.0/cb02390d4b60449da399e645b91440d4.jsonl
Successfully read 841 events in a writing session from ./coauthor-
v1.0/12c7f30c5ba146e2a880fac46bc1e27c.jsonl
Successfully read 918 events in a writing session from ./coauthor-
v1.0/fe7442150cf74ed99d61e116a8a5426b.jsonl
Successfully read 1733 events in a writing session from ./coauthor-
v1.0/312e3263a9f24f3184364949a42a6dfc.jsonl


---------------------------------------------------------------------
-----
TypeError                                 Traceback (most recent call
last)
<ipython-input-28-f621020f0d9f> in <cell line: 0>()
      6
      7         # Extract user-written text and AI-generated suggestions
----> 8         user_texts = reconstruct_user_text(events)
      9         ai_suggestions = extract_selected_ai_suggestions(events)
     10         acceptance_status = extract_acceptance_status(events)

<ipython-input-18-5b55bd80d062> in reconstruct_user_text(events)
     16             for op in text_delta['ops']:
     17                 if 'insert' in op:
---> 18                     extracted_text += op['insert']
     19             current_text += extracted_text
     20

TypeError: can only concatenate str (not "dict") to str

# Save results to CSV
df_results_with_acceptances = pd.DataFrame(jsd_results)
df_results_with_acceptances.to_csv("emotion_similarity.csv",
```

```
index=False)

print(f"Processed {len(small)} paths. Results saved to
emotion_similarity_with_acceptance.csv.")

Processed 10 paths. Results saved to
emotion_similarity_with_acceptance.csv.
```

Looking at the highest and lowest 5 similarity scores

```
# highest and lowest 5 similarity scores and text
#highest five after similarity of 1
highest_5 =
df_results_with_acceptances[df_results_with_acceptances['jsd_similarit
y'] < 1].nlargest(5, 'jsd_similarity')
lowest_5 = df_results_with_acceptances.nsmallest(5, 'jsd_similarity')
print("Highest 5 Similarity Scores:")
for index, row in highest_5.iterrows():
    print(f"Score: {row['jsd_similarity']}")
    print(f"User Text: {row['user_text']}")
    print(f"AI Suggestion: {row['ai_suggestion']}")


print("\nLowest 5 Similarity Scores:")
for index, row in lowest_5.iterrows():
    print(f"Score: {row['jsd_similarity']}")
    print(f"User Text: {row['user_text']}")
    print(f"AI Suggestion: {row['ai_suggestion']}")

Highest 5 Similarity Scores:
Score: 0.9914896438307602
User Text: The other nations were afraid that if they went into
isolation, the United States would use the bomb on them.
AI Suggestion: The United States, on the other hand, was afraid that
if they didnt go into isolation, the other nations would use the bomb
on them.
Score: 0.9880423588297578
User Text: HHaving discussed the topic honestly, with girls in a
comfortable atmosphere and then only having to deal with girls who
have been surprised by their first period thye studenThe topic T
AI Suggestion: Having discussed the topic honestly, with girls in a
comfortable atmosphere and then only having to deal with girls who
have been surprised by their first period
Score: 0.9859983272789506
User Text: Matt is shocked by this, but he is even more shocked when
he finds out that Soeurette is actually pregnant.
AI Suggestion: He is even more shocked when he finds out that he is
the father of the child.
Score: 0.982275227410622
User Text: there are advantages of listening to an audiobook. It does
```
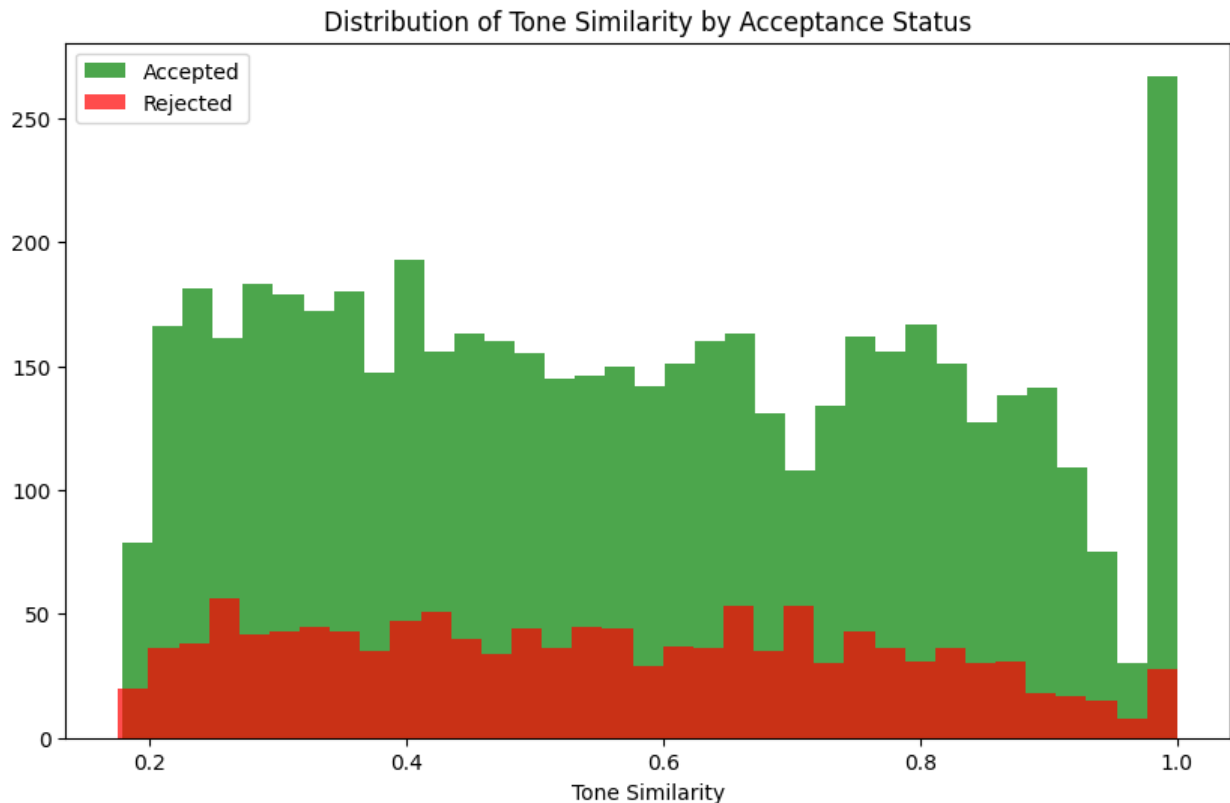
allow you to enjoy a book while you are doing other things.
AI Suggestion: It allows you to enjoy a book without getting a headache from reading.
Score: 0.9798502815316988
User Text: I can even skip around within chapters.
AI Suggestion: I can read the first paragraph of a chapter, then skip to the last paragraph, then go back to the beginning.

Lowest 5 Similarity Scores:
Score: 0.17583237626758774
User Text: "I'm so glad you called.
AI Suggestion: I'm afraid I'm going to need your help."
Score: 0.17926883731055365
User Text: to be, and I'm so glad that I'm not there anymore.
AI Suggestion: I was watching a show with my kids the other day, and I noticed that one of the characters was drinking alcohol.
Score: 0.17998090856063242
User Text: its white men in power that make me cringe.
AI Suggestion: This is not to say that white men should not play important roles in entertainment; it is more to show that women, African Americans and other races are
Score: 0.18143609904207836
User Text: you can't help but feel a little envious of the boy. You see that he's not treating her the way she deserves, and you almost wish you could step into the screen and
AI Suggestion: You watch in horror as the girl you've come to love, dies.
Score: 0.18350381620921496
User Text: have a conversation with my own husband. That was a scary place
AI Suggestion: inappropriate content.

Visualizations

```python
# plot of similarity distribution by acceptance status
import matplotlib.pyplot as plt
plt.figure(figsize=(10, 6))
plt.hist(df_results_with_acceptances[df_results_with_acceptances['acceptance_status'] == 'accepted']['jsd_similarity'], bins=35,
color='green', alpha=0.7, label='Accepted')
plt.hist(df_results_with_acceptances[df_results_with_acceptances['acceptance_status'] == 'rejected']['jsd_similarity'], bins=35,
color='red', alpha=0.7, label='Rejected')
plt.title('Distribution of Tone Similarity by Acceptance Status')
plt.xlabel('Tone Similarity')
plt.legend()
```

```
<matplotlib.legend.Legend at 0x7f19ea161110>
```

Distribution of Tone Similarity by Acceptance Status

8. Looking into POS for user and ai-generated text

two different ways to analyze Part of Speech structure. By frequency and order.

```python
import spacy
from typing import List, Dict

# Load the English language model
nlp = spacy.load("en_core_web_sm")

def get_pos_sequence(text):
    """Extracts the POS tag sequence from a given text."""
    doc = nlp(text)
    return [token.pos_ for token in doc]

def compare_pos_sequences(user_text, ai_text):
    """Compares POS tag sequences from user and AI text."""
    user_pos = get_pos_sequence(user_text)
    ai_pos = get_pos_sequence(ai_text)
    return {"user_pos": user_pos, "ai_pos": ai_pos}

def get_pos_frequencies(text):
    """Calculates the frequency of each POS tag in the given text."""
    pos_tags = get_pos_sequence(text)
    return dict(Counter(pos_tags))
```

```python
def compare_pos_frequencies(user_text, ai_text):
    """Compares POS tag frequencies between user and AI text."""
    user_freq = get_pos_frequencies(user_text)
    ai_freq = get_pos_frequencies(ai_text)
    return {"user_freq": user_freq, "ai_freq": ai_freq}

# Example usage
user_text = "I love dancing with my friends because it is fun."
ai_text = "Dancing with my friends is enjoyable and stress-relieving."

pos_comparison = compare_pos_sequences(user_text, ai_text)
freq_comparison = compare_pos_frequencies(user_text, ai_text)

print("POS Tag Sequences:", pos_comparison)
print("POS Tag Frequencies:", freq_comparison)

POS Tag Sequences: {'user_pos': ['PRON', 'VERB', 'VERB', 'ADP',
'PRON', 'NOUN', 'SCONJ', 'PRON', 'AUX', 'ADJ', 'PUNCT'], 'ai_pos':
['VERB', 'ADP', 'PRON', 'NOUN', 'AUX', 'ADJ', 'CCONJ', 'NOUN',
'PUNCT', 'NOUN', 'PUNCT']}
POS Tag Frequencies: {'user_freq': {'PRON': 3, 'VERB': 2, 'ADP': 1,
'NOUN': 1, 'SCONJ': 1, 'AUX': 1, 'ADJ': 1, 'PUNCT': 1}, 'ai_freq':
{'VERB': 1, 'ADP': 1, 'PRON': 1, 'NOUN': 3, 'AUX': 1, 'ADJ': 1,
'CCONJ': 1, 'PUNCT': 2}}
```

Function to calculate cosine similarity between POS of texts

```python
from sklearn.metrics.pairwise import cosine_similarity
def cosine_similarity_pos(pos1, pos2):
    """Computes cosine similarity between POS tag frequency
vectors."""
    pos1_freq = Counter(pos1)
    pos2_freq = Counter(pos2)

    # Create a sorted list of all POS tags in both texts
    all_tags = sorted(set(pos1_freq.keys()) | set(pos2_freq.keys()))

    # Convert frequency dictionaries into vectors
    vec1 = np.array([pos1_freq.get(tag, 0) for tag in
all_tags]).reshape(1, -1)
    vec2 = np.array([pos2_freq.get(tag, 0) for tag in
all_tags]).reshape(1, -1)

    # Compute cosine similarity
    return cosine_similarity(vec1, vec2)[0][0]

user_pos = get_pos_sequence(user_text)
ai_pos = get_pos_sequence(ai_text)
```

```
print(f"POS Tag Similarity: {cosine_similarity_pos(user_pos,
ai_pos)}")

POS Tag Similarity: 0.6842105263157894
```

MOST IMPORTANT

Creates the dataframe with user text, ai-suggestion, Tone similarity and POS similarity.

```python
# Loop through each path (limited to paths 100-110)
for path in paths[:100]:
    events = read_writing_session(path)

    if len(events) < 3000:

        # Extract user-written text and AI-generated suggestions
        user_texts = reconstruct_user_text(events)
        ai_suggestions = extract_selected_ai_suggestions(events)
        acceptance_status = extract_acceptance_status(events)

        # Ensure we only compare matching pairs
        for user_text, ai_text, status in zip(user_texts,
ai_suggestions, acceptance_status):
            user_score,user_vector = get_emotion_vector(user_text)
            ai_score,ai_vector = get_emotion_vector(ai_text)

            # Compute JSD similarity
            jsd_similarity = similarity_jsd(user_vector, ai_vector)

            # Compute POS similarity
            user_pos = get_pos_sequence(user_text)
            ai_pos = get_pos_sequence(ai_text)
            pos_similarity = cosine_similarity_pos(user_pos, ai_pos)

            # Store results, including acceptance status
            jsd_results.append({
                "path": path,
                "user_text": user_text,
                "ai_suggestion": ai_text,
                "tone_similarity": jsd_similarity,
                "pos_similarity": pos_similarity,
                "acceptance_status": status
            })

# Save results to CSV
df_results_with_acceptances = pd.DataFrame(jsd_results)
df_results_with_acceptances.to_csv("Tone_POS_similarity.csv",
index=False)
```

```
print(f"Processed {len(small)} paths. Results saved to
emotion_similarity_with_acceptance.csv.")
```

Successfully read 1238 events in a writing session from ./coauthor-
v1.0/9614fb65fa5146549e303e13586a947b.jsonl
Successfully read 2431 events in a writing session from ./coauthor-
v1.0/6c16f972111c483a9d45114c12e381ff.jsonl
Successfully read 1202 events in a writing session from ./coauthor-
v1.0/bd632b8b53394b32a6dba18848f787a4.jsonl
Successfully read 946 events in a writing session from ./coauthor-
v1.0/5d9be2dad6584ff4b2ab1c6f701f64cb.jsonl
Successfully read 1247 events in a writing session from ./coauthor-
v1.0/08b1a2012f4d4115b56cc8231449ff48.jsonl
Successfully read 1994 events in a writing session from ./coauthor-
v1.0/b4bbf40667d64a6ebd248ebb87a3ce5f.jsonl
Successfully read 1830 events in a writing session from ./coauthor-
v1.0/423daa7fb2214d1093f73d4966240646.jsonl
Successfully read 1876 events in a writing session from ./coauthor-
v1.0/54c597f302a9404caab702a8499b8aa0.jsonl
Successfully read 1902 events in a writing session from ./coauthor-
v1.0/b30082b36e764dbd859c020b10fe78b5.jsonl
Successfully read 2593 events in a writing session from ./coauthor-
v1.0/1b15da4de55047cf85b1ca1adbb860a6.jsonl
Successfully read 2675 events in a writing session from ./coauthor-
v1.0/02ef07c642254b088b72486ce41e010c.jsonl
Successfully read 886 events in a writing session from ./coauthor-
v1.0/17f65e14d6ab4f7596367a394daf3f82.jsonl
Successfully read 2254 events in a writing session from ./coauthor-
v1.0/9350869f0d24492c920c83e0a9507648.jsonl
Successfully read 700 events in a writing session from ./coauthor-
v1.0/f11975fed1994467a041c56aab447dcb.jsonl
Successfully read 1268 events in a writing session from ./coauthor-
v1.0/815f2133a4634d7b88b1697b1f8a5d1e.jsonl
Successfully read 3366 events in a writing session from ./coauthor-
v1.0/0a83297c1ce94d15b358d79e533396c7.jsonl
Successfully read 1610 events in a writing session from ./coauthor-
v1.0/52c100caa73b4d7ba9185287b8863362.jsonl
Successfully read 2754 events in a writing session from ./coauthor-
v1.0/d701053d959a43399a0f3877dab22dd8.jsonl
Successfully read 628 events in a writing session from ./coauthor-
v1.0/5233fde72269427db4cd417546bfddf3.jsonl
Successfully read 2970 events in a writing session from ./coauthor-
v1.0/81b30967f40349e5b0e333f1e4851ce4.jsonl
Successfully read 1752 events in a writing session from ./coauthor-
v1.0/98ec7dfa3aa04e69b9eaf765d6134943.jsonl
Successfully read 1540 events in a writing session from ./coauthor-
v1.0/484eba21615341fab99300bfe20873fb.jsonl
Successfully read 1540 events in a writing session from ./coauthor-
v1.0/34f5ead6ffce44cfbdbd9cd0ef47f0c5.jsonl
Successfully read 874 events in a writing session from ./coauthor-

v1.0/2f923aba101d46dc9bfca5a6664342d7.jsonl
Successfully read 1531 events in a writing session from ./coauthor-v1.0/80624eb1f1d241e8b1fa4cdc70d43f0a.jsonl
Successfully read 3220 events in a writing session from ./coauthor-v1.0/8fe4b8a137ba4a7abe80e5c005f7490f.jsonl
Successfully read 3491 events in a writing session from ./coauthor-v1.0/5d97592b669a4155b2f8d7308d649c0d.jsonl
Successfully read 2416 events in a writing session from ./coauthor-v1.0/2f57e9155477457aad589a7cc507cd68.jsonl
Successfully read 2660 events in a writing session from ./coauthor-v1.0/955a3f8444e149f8a66045bb23420a4c.jsonl
Successfully read 2196 events in a writing session from ./coauthor-v1.0/0a08f7fd748246c8ad4e353edb7e2394.jsonl
Successfully read 1421 events in a writing session from ./coauthor-v1.0/d335521141c84360aad24ece4e5760f7.jsonl
Successfully read 2994 events in a writing session from ./coauthor-v1.0/cb5036e1f4494870bf96a478065d3269.jsonl
Successfully read 3119 events in a writing session from ./coauthor-v1.0/23b998c76c784ff29f0ddedd78128722.jsonl
Successfully read 2855 events in a writing session from ./coauthor-v1.0/85e6bf7f0f3844f3a9f88b7f3350e6f6.jsonl
Successfully read 2094 events in a writing session from ./coauthor-v1.0/87958a503957482fa3a5b13de3fbb296.jsonl
Successfully read 2316 events in a writing session from ./coauthor-v1.0/ad3a61d515cf456cbaa424c7b4ac0f13.jsonl
Successfully read 1136 events in a writing session from ./coauthor-v1.0/bb1c9d77d4044d218d5adebb777b9bf0.jsonl
Successfully read 2094 events in a writing session from ./coauthor-v1.0/1763bf2d3371474ab481253b7731c586.jsonl
Successfully read 3114 events in a writing session from ./coauthor-v1.0/c25b2c082a184e678a841035032b5468.jsonl
Successfully read 1539 events in a writing session from ./coauthor-v1.0/029d014b392a4c41b711153a08cea400.jsonl
Successfully read 1882 events in a writing session from ./coauthor-v1.0/2848a799f11d4a41b15f5c91dd89eff2.jsonl
Successfully read 2145 events in a writing session from ./coauthor-v1.0/86a1c83126c749beb1159014d164c679.jsonl
Successfully read 1653 events in a writing session from ./coauthor-v1.0/a754ad9eecca4d13954cf36eeda823b5.jsonl
Successfully read 1913 events in a writing session from ./coauthor-v1.0/c86ee4fe34954bd7b183d8a5068255da.jsonl
Successfully read 1689 events in a writing session from ./coauthor-v1.0/185067c797e34884b1408a69680fe28a.jsonl
Successfully read 2501 events in a writing session from ./coauthor-v1.0/83abfb13942f491b9de32bfcc1c3dc47.jsonl
Successfully read 1863 events in a writing session from ./coauthor-v1.0/df6068305d29453eb22a51d46085e197.jsonl
Successfully read 2517 events in a writing session from ./coauthor-v1.0/3d19d3770396446bb568be0852f3bcd4.jsonl
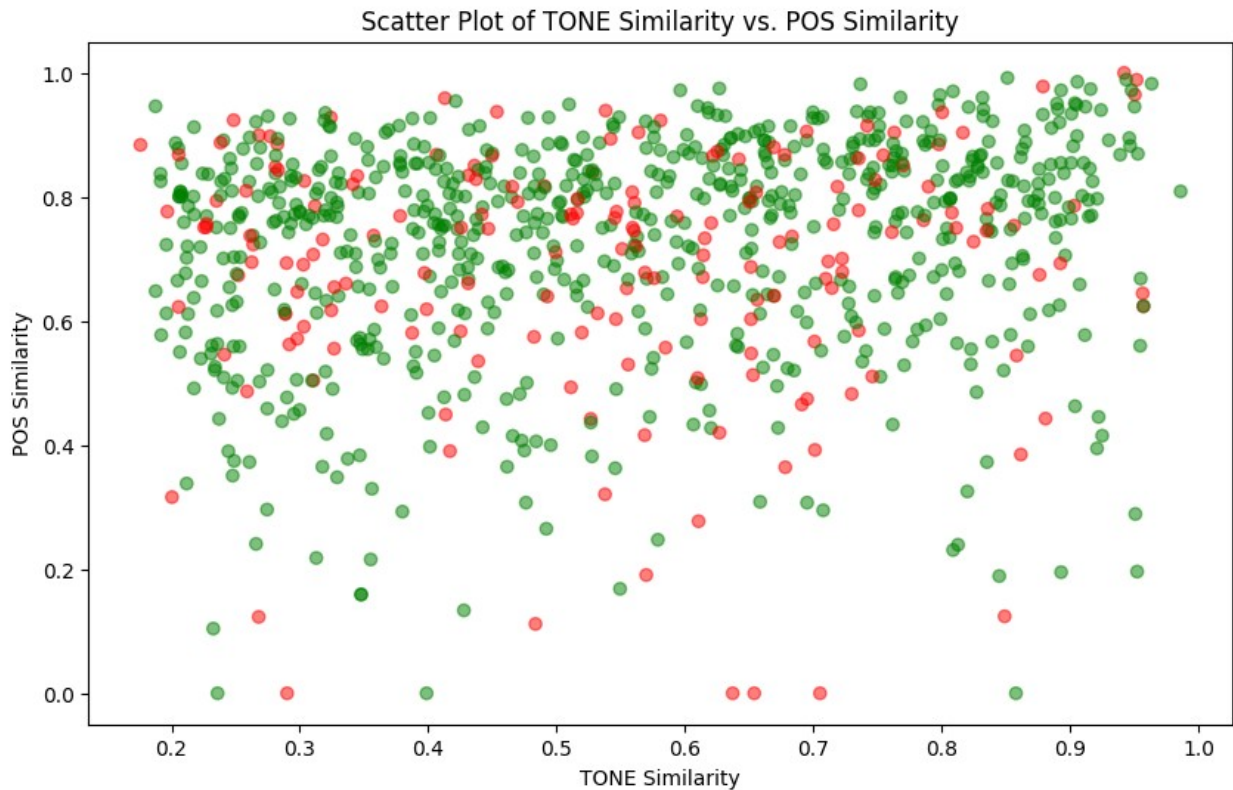
Successfully read 2246 events in a writing session from ./coauthor-
v1.0/77cae115ed8349dbad550de12e5858c1.jsonl
Successfully read 1668 events in a writing session from ./coauthor-
v1.0/d2c71212ed1446a79b5d404def4239a9.jsonl
Successfully read 1482 events in a writing session from ./coauthor-
v1.0/89636fe51d724f15a23f1cef4124191f.jsonl
Successfully read 2206 events in a writing session from ./coauthor-
v1.0/f86e93e1f9e8447baa49531e1fe80f04.jsonl
Successfully read 3743 events in a writing session from ./coauthor-
v1.0/b25c76c9dd3a406192b6e3b7b4638a2a.jsonl
Successfully read 950 events in a writing session from ./coauthor-
v1.0/a59321f59eeb459da6a427267afefb9b.jsonl
Successfully read 2929 events in a writing session from ./coauthor-
v1.0/6363bd9d985e41f79f3bfb8e04fa3b5e.jsonl
Successfully read 1691 events in a writing session from ./coauthor-
v1.0/ada1c4b3f99847d9907e77dd96200ed9.jsonl
Successfully read 1476 events in a writing session from ./coauthor-
v1.0/409ea6cd2f8347dbb41344d1243c7e17.jsonl
Successfully read 3045 events in a writing session from ./coauthor-
v1.0/e0435f4cf6fc435c872ffc5b66b66b0c.jsonl
Successfully read 1229 events in a writing session from ./coauthor-
v1.0/7834dec912b34643afb92b7c3648a3fe.jsonl
Successfully read 1222 events in a writing session from ./coauthor-
v1.0/03f76432a1e149e1887c28daf15807f0.jsonl
Successfully read 2337 events in a writing session from ./coauthor-
v1.0/e03ef85aec8b445190e519003d884092.jsonl
Successfully read 1906 events in a writing session from ./coauthor-
v1.0/9e0576b5ce9945a5909edad67b3c3be8.jsonl
Successfully read 1247 events in a writing session from ./coauthor-
v1.0/8f5facc84faa440aaab8b05968fbdf4a.jsonl
Successfully read 983 events in a writing session from ./coauthor-
v1.0/a8268620a9a74cd9a64bd82f90723729.jsonl
Successfully read 1824 events in a writing session from ./coauthor-
v1.0/18de1e1d4baf4aabaf525a1f5bae3432.jsonl
Successfully read 1211 events in a writing session from ./coauthor-
v1.0/745644f53bdc47409855cc751518e25b.jsonl
Successfully read 1606 events in a writing session from ./coauthor-
v1.0/2f8c2905bd764dd1a70ed96115e75edb.jsonl
Successfully read 934 events in a writing session from ./coauthor-
v1.0/99dcceb9d7394bd1986fbf3572b3efcd.jsonl
Successfully read 3934 events in a writing session from ./coauthor-
v1.0/f23823c7cb324ac580f3d051241c7fef.jsonl
Successfully read 1530 events in a writing session from ./coauthor-
v1.0/b3a1b8cfb7d94eb3a615600d440a0bc1.jsonl
Successfully read 2323 events in a writing session from ./coauthor-
v1.0/8d4bdb014d5f4a919735ff5a928176b5.jsonl
Successfully read 1751 events in a writing session from ./coauthor-
v1.0/58e702b7c7e249a0aaf762ea10f833b3.jsonl
Successfully read 2146 events in a writing session from ./coauthor-

```
v1.0/6d7b66caeb974603a770490a4a83c38a.jsonl
Successfully read 1455 events in a writing session from ./coauthor-
v1.0/1049b04745b44e7fa2a50d98321c2026.jsonl
Successfully read 1992 events in a writing session from ./coauthor-
v1.0/ed0280fb0f114ead8a22516a8309f982.jsonl
Successfully read 1528 events in a writing session from ./coauthor-
v1.0/47f1f3cedf5e4a779470a1816fd625dc.jsonl
Successfully read 1562 events in a writing session from ./coauthor-
v1.0/f44e4ed0828e40abab5892a019e11dc0.jsonl
Successfully read 1429 events in a writing session from ./coauthor-
v1.0/be2644ed7bc34c438c36bf80db400c9c.jsonl
Successfully read 1696 events in a writing session from ./coauthor-
v1.0/d301787ad1c14454943032e70f5f46f0.jsonl
Successfully read 1990 events in a writing session from ./coauthor-
v1.0/007769c9000e457eae8485221041802d.jsonl
Successfully read 1672 events in a writing session from ./coauthor-
v1.0/200b5a62bded44f6ba8320c117bee58a.jsonl
Successfully read 2967 events in a writing session from ./coauthor-
v1.0/06209e0aab79451d994d756ff3542754.jsonl
Successfully read 1671 events in a writing session from ./coauthor-
v1.0/2d9bcb435a994711829fe6b05f256fdb.jsonl
Successfully read 1431 events in a writing session from ./coauthor-
v1.0/f3bd97b3642443f0869190c50ad0b771.jsonl
Successfully read 875 events in a writing session from ./coauthor-
v1.0/07dab80e78f24a8bb09384e9067719d0.jsonl
Successfully read 1206 events in a writing session from ./coauthor-
v1.0/2eec737efca444bc893bea2f5b791a00.jsonl
Successfully read 2989 events in a writing session from ./coauthor-
v1.0/26ef513f441b4cff947d376a0fe1fb5c.jsonl
Successfully read 1399 events in a writing session from ./coauthor-
v1.0/b75ef56faed74be0b4b59e15138e18f4.jsonl
Successfully read 1521 events in a writing session from ./coauthor-
v1.0/c72d65250b4f4c1193e2f089afe9429c.jsonl
Successfully read 1898 events in a writing session from ./coauthor-
v1.0/138dd7338a0f480584ca1deddb32f6b7.jsonl
Successfully read 1742 events in a writing session from ./coauthor-
v1.0/b43804135b264aaf84c129e2f6c5be48.jsonl
Successfully read 1209 events in a writing session from ./coauthor-
v1.0/cf17210c31294194a0bf3e3a851a34ea.jsonl
Successfully read 1949 events in a writing session from ./coauthor-
v1.0/65564e291348443491a3701f80d2b99d.jsonl
Successfully read 1112 events in a writing session from ./coauthor-
v1.0/38375f5155704d2d8509843e56ec029d.jsonl
Successfully read 2008 events in a writing session from ./coauthor-
v1.0/91e0856327a04acb8f366faea281f072.jsonl
Successfully read 1798 events in a writing session from ./coauthor-
v1.0/ee27a30ee83c4349b80fc05e81c00a82.jsonl
Successfully read 2453 events in a writing session from ./coauthor-
v1.0/758b76b82ccf413aa93fd4d74624d288.jsonl
```

```
Successfully read 1725 events in a writing session from ./coauthor-
v1.0/4181c7d35eff4eceb4aad545dd2a9273.jsonl
Successfully read 1951 events in a writing session from ./coauthor-
v1.0/266f0df3fa994ce1b0b8b37da8169d62.jsonl
Successfully read 1648 events in a writing session from ./coauthor-
v1.0/3ca2007bfff344b0a3f1322866235137.jsonl
Processed 10 paths. Results saved to
emotion_similarity_with_acceptance.csv.
```
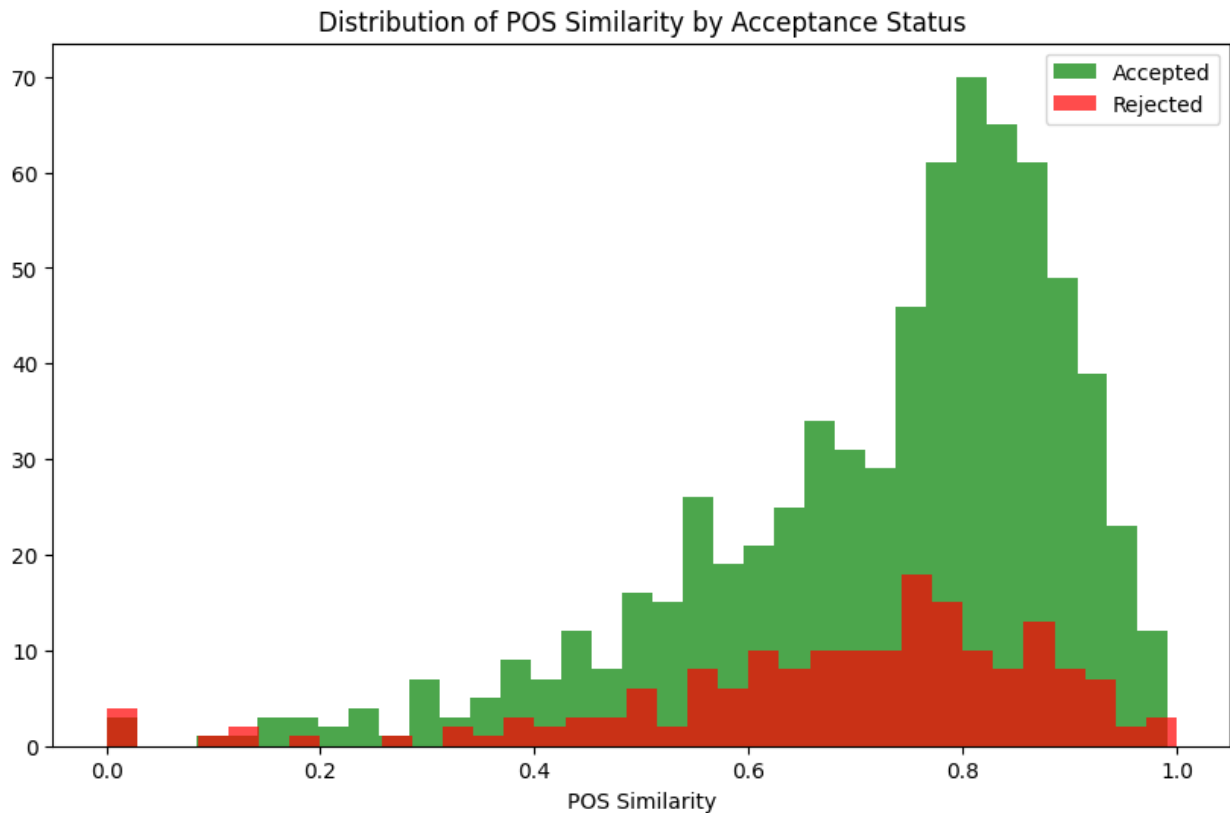
Visualizations

```python
df_results =
df_results_with_acceptances[df_results_with_acceptances['jsd_similarit
y'] < 1]
df_results = df_results.dropna()
df_results.to_csv("Tone_POS_similarity.csv", index=False)

colors = {'accepted': 'green', 'rejected': 'red'}

#plot tone and POS similarity
plt.figure(figsize=(10, 6))
plt.scatter(df_results['jsd_similarity'],
df_results['pos_similarity'],
            alpha=0.5,
            c=df_results['acceptance_status'].map(colors))
plt.xlabel('TONE Similarity')
plt.ylabel('POS Similarity')
plt.title('Scatter Plot of TONE Similarity vs. POS Similarity')

Text(0.5, 1.0, 'Scatter Plot of TONE Similarity vs. POS Similarity')
```

Scatter Plot of TONE Similarity vs. POS Similarity


```
plt.figure(figsize=(10, 6))
plt.hist(df_results[df_results['acceptance_status'] == 'accepted']
['pos_similarity'], bins=35, color='green', alpha=0.7,
label='Accepted')
plt.hist(df_results[df_results['acceptance_status'] == 'rejected']
['pos_similarity'], bins=35, color='red', alpha=0.7, label='Rejected')
plt.title('Distribution of POS Similarity by Acceptance Status')
plt.xlabel('POS Similarity')
plt.legend()
```

```
<matplotlib.legend.Legend at 0x7f19ecd99150>
```

Distribution of POS Similarity by Acceptance Status

9. T-Tests

```python
from scipy.stats import ttest_ind

# Separate data based on acceptance
accepted = df_results[df_results['acceptance_status'] == 'accepted']
rejected = df_results[df_results['acceptance_status'] == 'rejected']

# Run t-tests
t_jsd, p_jsd = ttest_ind(accepted['jsd_similarity'],
rejected['jsd_similarity'], equal_var=False)
t_pos, p_pos = ttest_ind(accepted['pos_similarity'],
rejected['pos_similarity'], equal_var=False)

# Print results
print(f"T-test for Tone Similarity: t = {t_jsd:.4f}, p = {p_jsd:.4f}")
print(f"T-test for POS Similarity: t = {t_pos:.4f}, p = {p_pos:.4f}")

T-test for Tone Similarity: t = 0.7651, p = 0.4448
T-test for POS Similarity: t = 2.5967, p = 0.0100
```