A Practical Guide for OSINT Investigators to Combat Disinformation and Fake Reviews Driven by AI (ChatGPT)

The internet is being flooded with disinformation and fake reviews, generated by users of AI tools such as ChatGPT, with malicious intent. In this report based on firsthand research, ShadowDragon outlines how to identify AI-generated materials online that are intentionally spreading false information or even intended to incite violence.

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Nico Dekens | Dutch_OsintGuy
The rise of artificial intelligence (AI) has brought about a new era of technological advancements and breakthroughs, changing the way we live, work and interact with the world around us. One highly trending development in the world of AI is ChatGPT.

ChatGPT has become a buzzword, but at its core it is a tool that utilizes AI and machine learning (ML) to provide users with answers based on training from a large data corpus. However, as with any new technology, there is always a good side and a bad side. Unfortunately, the bad side of ChatGPT has been seen in recent months, with an increase in its abuse for bad or wrong intentions.

This report covers the following:
- Introduction to the research
- How AI like ChatGPT fuels disinformation
- Ways to combat AI disinformation with open source intelligence (OSINT)
- ChatGPT prompt error messages and different languages
- How to identify fake reviews online
- Ways ChatGPT makes mistakes and lies to users
- Finding potential hate speech or offensive content created by AI language models
- How ChatGPT is being used in combination with deepfake imagery and audio
This investigation started with the author of this paper sitting down to order a book on Amazon.com. While reading the reviews of that book, he noticed there was a clear ChatGPT error message in one of the reviews that read, “as an AI language model.” This formed the hypotheses for this research:

Is ChatGPT being used and abused to spread false or fake information?

This main research question led to the discovery of multiple error reply messages generated by ChatGPT whenever a user makes a prompt that violates the Terms of Service and/or is something that ChatGPT is not capable of doing. This, in turn, prompts ChatGPT to answer with an error message, which we will dive into later in this paper.

These error messages form the input to find AI-generated fake reviews, social media messages, hate speech, fake blogs and more. While trying to understand how ChatGPT can be used to create these messages, ShadowDragon also discovered that ChatGPT often lies about certain tasks it is given. In other words, it makes mistakes and then lies about them.

When ChatGPT is combined with other forms of AI, such as generative AI that creates imagery and/or audio, it becomes a very powerful mix: one that spreads highly realistic disinformation that looks and feels so realistic that it is incredibly hard to detect it’s fake.

AI LIKE CHATGPT FUELS DISINFORMATION

ChatGPT utilises a huge data corpus to train its algorithms, which allows it to act as a collective “brain” capable of providing users with answers based on what it has learned from the data. This data includes decades of opinions and knowledge available on the internet, which can be used for good or bad.

ChatGPT is now the most popular AI that uses Large Language Models (LLMs). It was also one of the first open-source projects to gain a lot of attention, traction and funding. But despite these milestones, tech giants, like Microsoft and Google, are starting to roll out similar technology.

DISINFORMATION, FAKE REVIEWS AND DEEPFAKES

While many people use ChatGPT for good, the problem lies in how it can be used to spread disinformation and fake reviews. Disinformation, fake reviews and deepfakes are three major issues that have plagued the internet for years. Disinformation is the deliberate spreading of false or misleading information to influence opinions or obscure the truth.

Fake reviews are reviews that are falsely created or manipulated to give an inaccurate impression of a product, service, or business. ChatGPT, for example, can be used to generate fake reviews that are difficult to distinguish from genuine ones. This is because ChatGPT has been trained on large datasets of reviews, which allows it to create new reviews that appear to be written by real people. These fake reviews can be used to manipulate consumer opinion, harm competitors, and deceive customers. Both of these issues have a negative impact on society, and AI is now being used to amplify their effects. Read on for specific examples and tips for identifying these types of reviews.

Another way AI is contributing to the spread of disinformation is through the creation of deepfakes. Deepfakes are videos, images or audio recordings that have been manipulated using AI to produce content that appears real but is actually fake. Deepfakes can be used to spread false information, deceive people, or even incite violence.
Combating AI disinformation, fake reviews and deepfakes with OSINT

Let's talk about the ways we can combat disinformation that is being spread online. One method is to examine the error messages that AI language models, such as ChatGPT, generate. These messages serve as keywords that can be monitored on various social media platforms, such as Twitter, Discord, Telegram, 4chan and Reddit. Anyone can set this up, as long as you know what error messages to look for.

**PROMPT ERRORS ➔ OSINT INVESTIGATIVE CHANCES**

These error messages are a form of warning that users most likely encountered when they made a mistake in the prompt they used. From an OSINT (Open-Source Intelligence) perspective, it is smart to use these error messages to monitor for AI-generated content that might spread false information or hate. By monitoring these error messages, we can also identify patterns in the types of content that are being generated by AI language models. This can help us better understand the methods that are being used to spread disinformation and false information online. By doing so, we can potentially detect fake accounts, disinformation campaigns and specific narratives.

Some examples of the known error messages that Chat GPT and other AI language models may generate include (this is a non-exhaustive and ever growing list):

- “as an AI language model”
- “not a recognized word”
- “cannot provide a phrase”
- “with the given words”
- “violates OpenAI’s content policy.”
- “I’m sorry, I cannot generate”
- “The message you submitted”
- “An error occurred. If this issue persists please contact us through our help center at”
- “Something went wrong, please try reloading the conversation.”
- “I’m sorry, but I cannot fulfill this request”
- “Thank you for starting it” comes from “This is such an important conversation that needs to happen more often. Thank you for starting it.”

These error messages may seem innocuous at first glance, but they can serve as important red flags for potentially harmful content. By using these error messages as a starting point, we can better understand the ways in which AI-generated content is being used to spread disinformation and false information online. With this knowledge, we can work to create better systems and methods for detecting and combating these issues.
Interestingly, we can “ask” ChatGPT what these errors mean and ask it to output the answer in a tabular format. It provides an answer for most of the discovered prompt errors:

<table>
<thead>
<tr>
<th>Response</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>‘As an AI language model’</td>
<td>A response to introduce myself as an AI language model.</td>
</tr>
<tr>
<td>‘Not a recognized word’</td>
<td>A response to indicate that the input is not a recognized word in the language model’s vocabulary.</td>
</tr>
<tr>
<td>‘Cannot provide a phrase’</td>
<td>A response to indicate that the input does not form a complete or coherent phrase or sentence.</td>
</tr>
<tr>
<td>‘With the given words’</td>
<td>A response to indicate that the input needs more context or information to generate an appropriate response.</td>
</tr>
<tr>
<td>‘Violates OpenAI’s content policy’</td>
<td>A response to indicate that the input violates OpenAI’s content policy, which includes guidelines on topics such as hate speech, violence, and misinformation.</td>
</tr>
<tr>
<td>‘I’m sorry, I cannot generate’</td>
<td>A response to indicate that the AI language model is unable to generate a response for the input.</td>
</tr>
<tr>
<td>‘The message you submitted’</td>
<td>A response to indicate that the input was received and is being processed by the AI language model.</td>
</tr>
<tr>
<td>‘An error occurred. If this issue persists please contact us through our help center at’</td>
<td>A response to indicate that there was an error processing the input, and the user should seek assistance from OpenAI’s help center.</td>
</tr>
<tr>
<td>‘Something went wrong, please try reloading the conversation,’</td>
<td>A response to indicate that there was an error processing the input, and the user should try reloading the conversation or inputting the request again.</td>
</tr>
<tr>
<td>‘I’m sorry, but I cannot fulfill this request’</td>
<td>A response to indicate that the AI language model is unable to fulfill the user’s request for a specific reason.</td>
</tr>
<tr>
<td>‘I’m sorry, I can’t do that right now’</td>
<td>A response to indicate that there is an issue with the AI language model’s programming or functionality that prevents it from fulfilling a user’s request.</td>
</tr>
<tr>
<td>‘I’m sorry, I am not programmed to respond to that kind of request’</td>
<td>A response to indicate that the input falls outside of the AI language model’s programmed capabilities and cannot be fulfilled.</td>
</tr>
<tr>
<td>Response</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>'I'm sorry, I am not authorized to provide that information'</td>
<td>A response to indicate that the AI language model is not authorized to provide certain types of information to the user.</td>
</tr>
<tr>
<td>'I'm sorry, I don't have access to that resource'</td>
<td>A response to indicate that the AI language model does not have access to a specific database or set of information that the user has requested.</td>
</tr>
<tr>
<td>'I'm sorry, that request is outside of my programming parameters'</td>
<td>A response to indicate that the input is too complex or difficult for the AI language model to understand or process.</td>
</tr>
<tr>
<td>'I apologize, but I'm not sure what you're asking for'</td>
<td>A response to indicate that the input is unclear or ambiguous, and the AI language model requires more information to provide an appropriate response.</td>
</tr>
<tr>
<td>'I'm sorry, that feature is not available yet'</td>
<td>A response to indicate that a particular feature or functionality is not currently available in the AI language model.</td>
</tr>
<tr>
<td>'I'm sorry, I don't understand what you mean'</td>
<td>A response to indicate that the AI language model does not understand the input or the input is too vague.</td>
</tr>
<tr>
<td>'I'm sorry, I cannot provide a response that violates my programming parameters'</td>
<td>A response to indicate that the input violates the AI language model's programming parameters, which includes guidelines on topics such as profanity or offensive language.</td>
</tr>
</tbody>
</table>

**DIFFERENT LANGUAGE CHATGPT PROMPT ERROR MESSAGES:**

As an online OSINT investigator, one should always be conscious of the fact that people all around the world speak different languages, so never limit yourself to one language when researching your topic of choice. The entire list of error prompt messages in the English language can be translated to any language that ChatGPT is capable of generating answers in. At this moment, ChatGPT can answer in the following languages:

- Arabic (العربية)
- Bengali (বাংলা)
- Chinese (中文)
- Dutch (Nederlands)
- French (français)
- German (Deutsch)
- Greek (Ελληνικά)
- Hebrew (עברית)
- Hindi (हिन्दी)
- Indonesian (Bahasa Indonesia)
- Italian (italiano)
- Japanese (日本語)
- Korean (한국어)
- Polish (polski)
- Portuguese (português)
- Russian (русский)
- Spanish (español)
- Swedish (svenska)
- Thai (ไทย)
- Turkish (Türkçe)
- Vietnamese (Tiếng Việt)
SEARCHING THE INTERNET FOR PROMPT ERRORS

In recent months, ShadowDragon observed the misuse of ChatGPT for bad or wrong intentions. This came from personal research as well as conversations with other OSINT investigators. This helped formulate specific searches to deeper investigate these phenomena. Below are some practical examples that show how widespread this “problem” is when it comes to ChatGPT generated bot behaviour sharing specific content or narratives.

Automated Social Media accounts:

For example, if we search for “I'm sorry, I cannot generate” on Twitter, we are looking for tweets that contain exactly that text. The goal is to identify Twitter accounts that are potentially using ChatGPT (automated or manually) to tweet something. This does not always mean that the tweets contain disinformation; ChatGPT could, of course, be used to simply automate tweets or responses in general. Regardless, this will definitely help determine (semi) automated bot (non human) accounts.
OTHER EXAMPLES THAT MIGHT HELP YOU FIND AI-GENERATED CONTENT ON SOCIAL MEDIA

“As an AI language model” inurl:post

This will look for the text, “As an AI language model,” but it has to be part of an url that contains a post. With this, we try to target platforms where users have posted something with the given text.

Google

[Search results for “As an AI language model” inurl:post]

IMAI - Influencer marketing
https://influencermarketing.ai › sorry-as-an-ai-lang... 
Sorry, as an AI language model, I cannot predict the future ...
13 Apr 2023 — Sorry, as an AI language model, I cannot predict the future or write content about the year 2023. However, I can provide a revised blog post ...

https://influencermarketing.ai › sorry-as-an-ai-lang... 
Sorry, as an AI language model, I am not able to predict the ...
Sorry, as an AI language model, I am not able to predict the future. Please provide a correct year so that I can rewrite the SEO blog post title for you.

cashandbuck.com
https://www.cashandbuck.com › post › unlocking-the...
Unlocking the Potential of ChatGPT: How to Use AI Language ...
As an AI language model, it has the ability to generate human-like text responses based on the input given. This capability has opened up a world of ...

Blind
https://www.teamblind.com › post › As-an-AI-language-... 21
As an AI language model I can definitely write a ...
As an AI language model I can definitely write a blind post title for you. Meta. SirBatman. Go to company page Meta. SEND PRIVATE MESSAGE. SirBatman.

M3 Consultancy
https://www.m3consultancy.nl › blog › chatgpt-a-busi...
ChatGPT: a business opportunity?
21 Mar 2023 — As an AI language model, ChatGPT can offer several opportunities for businesses. These include: Improved customer engagement: ChatGPT can ...
If we visit the website of the first result Google presented we can clearly see that the webpage posted an article that was generated with ChatGPT, or a similar language model, based on the error message that is visible.

We can now search for information like this on any platform. The hardest part is determining how to target the specific posts or the specific target social media platform.
Below are two more examples for different social media platforms:

"As an AI language model" inurl:post site:linkedin.com

This will look for the words "As an AI language model" showing only posts on LinkedIn. We target the platform with the "site:" operator set to target "linkedin.com," and we narrow it down with the "inurl:" operator combined with the word "post" to only look for posts made by LinkedIn users.
“As an AI language model” inurl:www.instagram.com/p

This will look for the words “As an AI language model” showing only posts on Instagram because it is known that all posts on Instagram have this url structure, “www.instagram.com/p,” followed by the “url” parameter. We ask Google to only show results that have “www.instagram.com/p” in the url.

FINDING (FAKE) REVIEWS:

You can also find product reviews that have been generated with ChatGPT. Again, it does not necessarily mean that these reviews are fake or false. Meaning someone could ask an AI language model like ChatGPT to write a positive or negative review on their behalf.

We can try to find these fake reviews with those prompt error messages that have been presented earlier.
Example for Amazon (fake) review search:

In Google, we can make use of search operators. In this case we are only interested in results indexed by Google coming from the domain “Amazon.com,” in combination with one of the prompt error messages. For instance:

site:amazon.com "as an AI language model"

Notice that Google returns just under 200 results that match our search. As you scroll through these results, you will see some links that hint these reviews are most likely generated with an AI language model, like ChatGPT.
Let's examine the first review we found - The Brain Quest Workbook: Grade 3.

If we search for the text “as an AI language model” in all of the current reviews, we can find the following review:

If we read the review carefully, we can see the phrase we've been looking for, “as an AI language model”. This makes it very clear that this seemingly “normal” and “human” looking review is actually written by AI.
The next step could be pivoting to the Amazon user account that made this review to see if the account has posted other reviews. If this is the case, we can look to see if any of these reviews exhibit any information that may indicate they have been written by an AI language model.

We can see that this user named “Dody Sam” has made 8 public reviews:

Interestingly, there is another review for a book title similar to the one we just examined. Looking at that review, we can again see confirmation that AI has been used.
Digging into the other reviews made under this alias, no other prompt error messages were found. But if we closely examine them, we can see some really strong similarities that might indicate these reviews were also made with AI but simply do not contain prompt error messages. There is no certainty, but it’s an indication.

Customer Review

Dody Sam  

The Tenmire Led Lights for Bedroom 100ft are an excellent choice for anyone looking to add some ambiance and personality to their living space. With 300 LEDs and a length of 100ft, these lights provide plenty of coverage to illuminate your bedroom or either indoor spaces. The lights come with a remote control that allows you to choose from three different light colors (white, warm white, and blue) and adjust the brightness to your desired level.

One of the standout features of these lights is their ease of installation. The adhesive backing on the lights makes it simple to attach them to walls, ceilings, or any other surface you desire. Additionally, the lights are durable and built to last, so you can enjoy them for years to come.

Overall, the Tenmire Led Lights for Bedroom 100ft are a great investment for anyone looking to add some flair to their living space. They offer a lot of flexibility in terms of color and brightness, and their easy installation makes them a breeze to set up. Highly recommended!

Customer Review

Dody Sam  

It came with a fast deliver. And if you are looking for a reliable and durable set of knee pads, elbow pads, and wrist guards for your kids or youth, then you won’t go wrong with the Kids/Youth Knee Pad Elbow Wrist set.

One of the standout features of this set is its excellent level of protection. The knee pads, elbow pads, and wrist guards are all made from high-quality materials that offer superior impact resistance, which means that your child's joints and bones will be well protected during high-impact activities like skateboarding, rollerblading, or biking.

Another great thing about this set is how comfortable it is to wear. The pads are made with soft, breathable materials that are gentle on your child's skin, and the adjustable straps allow for a customized and secure fit.

In addition to their protective and comfortable features, these pads are also incredibly durable. They are made to withstand even the toughest wear and tear, so you won’t have to worry about them falling apart after just a few uses.

Overall, the Kids/Youth Knee Pad Elbow Wrist set is an excellent investment for parents who want to keep their children safe while they enjoy their favorite activities. They offer superior protection, comfort, and durability, making them a must-have for any active kid or youth.
Customer Review

Dody Sam

⭐⭐⭐⭐⭐ Good Stretch Velvet 2 Piece T Cushion
Reviewed in the United States on April 12, 2023
Size: 2 Cushion Sofa  Color: Camel  Verified Purchase

The velvet loveseat cover I recently purchased has exceeded my expectations in every way. The luxurious feel of the velvet is soft to the touch and adds a touch of elegance to my living room. The deep, rich color of the cover is a perfect match for my decor, and it looks just as good as the day I purchased it.

One of the things I appreciate most about this loveseat cover is its durability. Despite constant use by both myself and my pets, it has held up beautifully and shows no signs of wear or tear. It is also easy to clean and maintain, which is a major plus.

The cover fits my loveseat perfectly and has a snug, tailored look. It stays in place well, which is important to me since I use my loveseat regularly. The overall design of the cover is both functional and stylish, and I feel it adds a touch of sophistication to my space.

Overall, I highly recommend this velvet loveseat cover to anyone looking for a high-quality, durable, and stylish option to protect and enhance their furniture. It is a great investment that will provide comfort and style for years to come.

One person found this helpful

Customer Review

Dody Sam

⭐⭐⭐⭐⭐ Outstanding Quality and Portability: A Review of the Ninoyo 2K USB Digital Microscope*
Reviewed in the United States on April 11, 2023
Verified Purchase

I am happy to provide a review for the Ninoyo 2K USB Digital Microscope for Android PC, which I recently purchased from Amazon. This microscope is an excellent tool for anyone who needs to inspect small objects or details up close.

Firstly, I was impressed by the quality of the images produced by this microscope. The 2K resolution is outstanding, and the magnification range is impressive, allowing me to examine objects with incredible detail. I was able to view intricate details on the smallest of objects with ease.

The microscope is incredibly easy to use, and the included software made it simple to connect to my computer and Android phone. The controls are straightforward, and the included user manual was clear and concise. I appreciated the adjustable stand, which allowed me to position the microscope at the perfect height and angle for my needs.

Another feature that impressed me about the Ninoyo 2K USB Digital Microscope is its portability. It's small and lightweight, making it easy to carry with me on the go. I can use it to examine objects in the field or when I'm traveling without any inconvenience.

Overall, I highly recommend the Ninoyo 2K USB Digital Microscope for Android PC to anyone who needs a reliable and high-quality microscope. It's easy to use, produces excellent images, and is incredibly versatile and portable. I am extremely happy with my purchase and have already recommended it to several of my colleagues.
COMPARING THE PRODUCT REVIEW WITH A REVIEW WE MADE WITH CHATGPT FOR THE SAME PRODUCT

We tried to reproduce the wording, phrasing and overall style of the reviews to detect (consistent) similarities that language models use based upon their algorithm. Interestingly, the review’s overall structure shows strong similarities, as well as specific words and phrases:

Now that you know you can search for prompt error messages, it is fairly easy to find platforms that give users the option to leave reviews. Below are some examples of Google searches that might inspire you to do some investigative work on your own:

- site:ebay.com “as an ai language model”
- site:yelp.com “as an ai language model”
- site:www.amazon.com/product-reviews “as an AI language model”
ChatGPT does NOT listen! ChatGPT lies and apologizes!

After comparing AI-generated product reviews found on Amazon and Ebay, we decided to create our own legitimate-looking, fake review with ChatGPT.

**HOW:**
- Make a 6 line review for a Logitech G535 LIGHTSPEED Wireless Gaming Headset
- Make it look like the review was written by a young kid (between the age of 11-15)
- Make the review positive
- Describe one downside of the product
- Make at least 1 or two spelling mistakes (To make the review look real/human)

This short experiment led to an interesting finding: ChatGPT wrote a 6 line review that was positive and had one downside. It also looked somewhat as if an enthusiastic young kid between 11 and 15 had written it. So far, so good.

However, when I closely looked at the review, it did NOT contain the requested spelling mistakes asked for in the prompt. When asked what spelling mistakes it made, ChatGPT lied. And when confronted, it apologized for not including the spelling errors and promised to be more careful in future responses. Crazy, isn’t it?!
ChatGPT and its trustworthiness for OSINT investigations

Now equipped with the knowledge that ChatGPT is capable of lying and doesn’t completely comply with requests, it makes you wonder:

- How will this (not) work for any (OSINT) investigation that people try to perform by making use of ChatGPT?
- How can you as an investigator be sure and confident that ChatGPT gave you a solid and correct answer?
- How often does ChatGPT make things up and lie?

At this moment in time, we do not have the answers to these questions, but what we do know is that a lot of OSINT practitioners have started using ChatGPT for investigative work and questioning. Are you still comfortable with doing that? Will you still “blindly” trust the things that AI language models, like ChatGPT, present you? I sure hope not.

Doubt the outcomes from ANY language models. Double check, and try to verify the outcome through known, trusted sources and validation/search techniques.

EMPLOYER/EMPLOYEE REVIEW SITES

A similar approach can be used to find company and employee reviews. With this we can find potential positive or negative reviews for a specific company. When you really think about it, (fake) negative reviews are an ideal way for adversaries to make their competitors look bad.

Example general searches could be:

- indeed.com “as an ai language model”
- site:glassdoor.com “as an ai language model”
EMPLOYER/EMPLOYEE REVIEW SITES

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Example general searches could be:

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- site:glassdoor.com “as an ai language model"

![Google Search Example]

You could also make your searches a bit more specific by looking for a company name:

- site:indeed.com “as an ai language model' Google
- site:glassdoor.com “as an ai language model' Google
FINDING POTENTIAL HATE SPEECH OR OFFENSIVE CONTENT

If we make the assumption that people will use AI language models to spread hate speech or offensive content, we should be able to find this. The first goal is understanding the prompt error messages that might appear. ShadowDragon found two very useful prompt error messages that will help investigators pivot into finding potential hate speech or sensitive content:

- “I’m sorry. I cannot generate inappropriate or offensive content”
- “This phrase is vulgar and offensive. As an AI language model, I do not endorse or condone the use of derogatory language”

For the next steps, the recipe is almost the same as what we showed above. We need to search for the prompt error message on either the (social media) platform of interest directly, or we can use a search engine by making use of search operators.

Searching directly on Twitter.com for hate speech or offensive content:

![Screen capture of Twitter search]

Searching Twitter content with Google:

![Screen capture of Google search]

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We can do similar search for LinkedIn posts:

![LinkedIn search results](image1)

But also platforms like 4chan that are already somewhat known for housing posts that contain offensive or hateful content can be searched using similar techniques.

![4chan search results](image2)
USING CHATGPT IN COMBINATION WITH DEEPAKE IMAGERY

Now that we know that ChatGPT is used to spread hateful and offensive content, it can be fairly easy for a bad actor to spread fake and false narratives. You can achieve this goal by using ChatGPT to generate disturbing messages, but when combined with deepfake imagery, these messages are even more powerful. In this example, ChatGPT has generated the text for a false tweet that tries to play into racial biased emotions.

Example:

Now to make this “tweet” look more convincing, we can generate a complimentary deepfake picture that shows what the person “witnessed.”

We used MidJourney to generate a picture based on a prompt:

Brawl between 5 people, 4 of the people have light skin tone and that they attacked the 5th person, European style square, Hasselblad medium format camera with a 35 lens rule of thirds, photo-realistic, 32k uhd., (8k, RAW photo, best quality, masterpiece:1.2), (realistic, photo realistic:1.37), (best quality), --ar 4:6 --v 5.1 --c 2 --s 50 --style raw --v 5.1 --c 2 --s 50 --style raw

Notice that the first part describes what should be shown in a fully fake generated picture, while the last part of the prompt tells MidJourney specifically what type of camera lens and what kind of photo quality the picture should look like.

Here are the four generated pictures:
Now, if we combine the generated ChatGPT text about the brawl with one of these pictures, the chances are high that this post would invoke a reaction, potentially triggering a racial-oriented thread that polarises Twitter users.

These tactics are being used by bad actors! We have already seen fake war aftermath satellite imagery being used in the war around the Ukraine.

**ADD AUDIO? SURE WE CAN FAKE THAT!**

Just like AI text and imagery, we can also generate spoken audio. The options are broad - we can use voices that are made by companies, but we can also fully clone ANY voice from any person around the world (as long as we have enough sampling data for the voice clone model to generate a full voice clone.)

For the example below, we used one of the many of the free “text to speech” sources available online:

![Audio Sample](CONGRATS FOR YOUR GENERATED VOICE)

And here is the audio:

Listen to the **Audio Sample**
How ShadowDragon can help you find and monitor and analyze fake content

ShadowDragon powers solutions that can help you monitor large amounts of online resources, along with specific keywords that will alert you once they have been found. Think of all the ChatGPT prompt error messages discussed in this blog - monitor those with OIMonitor powered by ShadowDragon.

Once you have found the messages that you are looking for, you can pivot into the user accounts with our Horizon graph analysis platform, or use SocialNet to harvest and further analyze accounts and the content they spread, as well as their interconnectedness with other users and platforms.

CONCLUSION

The abuse of language models, such as ChatGPT, for bad or wrong intentions is a serious issue that needs to be addressed. The creators of AI and ML have a responsibility to ensure that their technology is not being used to spread disinformation or create fake reviews. This can be done by implementing safeguards and algorithms that can detect and prevent the creation of deepfakes or fake reviews. Investigators worldwide should be very alert if they want to use ChatGPT as a research assistant. It has been proven that ChatGPT lies, and extra fact-checking and validation is always needed. We can use OSINT tradecraft search techniques to find and expose ChatGPT generated false, fake or offensive content, and we can use that information to pivot into the user accounts and platforms that are hosting and spreading these wrong pieces of AI generated content.