In [30]:	1. Data Preperation First, install the neccesary libraries and import modules #!pip install pandas #!pip install numpy #!pip install textblob #!pip install nltk
In [31]: In [2]:	<pre>import pandas as pd import json from nltk.corpus import stopwords from nltk.stem import WordNetLemmatizer from nltk.tokenize import word_tokenize Also change the pandas display max column width parameter so the entire output is visible pd.set_option('display.max_colwidth', None)</pre>
In [3]:	<pre>with open('medicine.jsonl') as f: # read lines from jsonl into an intermediate df lines = f.read().splitlines()</pre>
In [4]: Out[4]:	df_inter = pd.DataFrame(lines) df_inter.columns = ['json_element'] df_inter.sample(3) igon_element ("question":'How to treat pain during masturbation?my name is matshepo i was dignosed with endometriosis in 2008 and had a laparotomy done in june of same year.my problem is that the operation didn't help i even had to quit my job i was told that my bowel is adhrent to uterus.''m 29 and evenytime i menstruate is so painful and it becomes worse when a flesh like thing comes outhat can id do to help mysel?",'Thung painful and it becomes worse when a flesh like thing comes outhat can id do to help mysel?",'Thung painful and it becomes worse when a flesh like thing comes outhat can id do to help mysel?",'Thung painful and it becomes worse when a flesh like thing comes outhat can id do to help mysel?",'Thung painful and it becomes worse when a flesh like thing comes outhat can id do to help mysel?",'Thung painful and it becomes worse when a flesh like thing comes outhat to the lining of the uterus grows outside of the uterus grow to hear about the pain you are experiencing. Endometriosis is a condition in which itsuse into the lining of the uterus grows outside of the uterus, and it can cause pain during menstruation and sexual activity. Masturbation itself should not cause pain, but if you are experiencing pain during masturbation it could be due to the endometriosis or another underlying issue\nnothing issue\nnothing you can try to help manage the pain you are experiencing\nnothing. You are determine the cause of the pain and recommend appropriate treatment. Your doctor may suggest medication, hormone therapy, or surgery to manage your endometriosis\nnothing. Techniques such as deep breathing, meditation, or yoga may be helpful\nnothing. Whin the development of the painful area may help reduce inflammation and alleviate pain\nnothing, meditation, or yoga may be helpful\nnothing therapy. Applying heat or cold to help aliend area may help reduce pain\nnothing masturbation or sexual activity may help reduce pain\nno
	caused by something else.\n\nTinnitus, or ringing in the ears, can be caused by a variety of factors, including ear infections, excessive earwax, certain medications, and exposure to loud noises. It's also possible that tinnitus could be a symptom of an underlying medical condition, such as high blood pressure or anemia.\n\nlf you are experiencing ongoing symptoms of na unasea and tinnitus, it's important to see a healthcare provider for further evaluation. They can perform a physical examination, review your medical history, and possibly order additional tests to determine the cause of your symptoms and recommend appropriate treatment."]} ("question":"Suggest treatment for persistent nausealve had a mirena iud in place for 5 years. The doctor try to take it out but couldnt grasps the strings. I had went to the doc originally thinking i was preg. My belly looked 2 mths preg. Neg test. He ordered a ultrasound to see where the iud is situated. Been nausea ous for 2 mths. Took laxatives. Belly went away but im still sick. Whats your advice. Ultrasound on the 15 of this mth.", "human_answers": ["Hallow Dear, Since the threads of Mirena are neither visible nor palpable, it is likely that it has migrated outside the uterine cavity - may be in the peritoneal cavity by perforating the uterine walls. Perforation of intrauterine device, particularly in the abdominal cavity can cause nausea, vomiting, abdominal distension, etc You are having these symptoms for about 2 months. Therefore it is likely that Mirena has perforated since that date. Your doctor therefore has advised you Ultrasonography. It will locate the position of Mirena. If it has perforated the uterine wall - partially or completely, you will need surgical intervention for removing the device. Please follow your doctors religiously. You need Gynaecologist's care. Dr. Nishikant Shrotri"], "chatgpt_answers":[""m sorry to hear that you have been experiencing persistent nausea and difficulty with your Mirena IUD. It's important to speak with your healthcare p
<pre>In [5]: In [6]: Out[6]:</pre>	Does Nano-Leo help with sperm morphology [Nano-Leo is a dietary supplement that contains a combination of ingredients, including L-
	and low sperm count? We went for fertility issues. Doctor prescribed me Nano-leo even though I do to toption and thus you need even though I do to toption and thus you need even though I do to toption and thus you need even though I do to toption and thus you need even though I do to toption and thus you need even though I do to toption and thus you need even though I do to toption and thus you need even though I do to toption and thus you need even though I do to toption and thus you need to be addressed. However, there is limited scientific evidence to support these claims, whill is important to note that Nano-Leo is not a medication and is not intended to diagnose, treat, to represent any disease. If you are concerned about fertility issues, it is important to speak with a healthcare professional who can properly diagnose and treat any underlying medical conditions. While supplements like Nano-Leo may be marketed as fertility aids, there is no quarantee that they will be effective, and they may not be suitable for everyone. Infully you have been prescribed Nano-Leo by a healthcare professional, it is important to speak with a healthcare professional about the best course of treatment for your specific fertility issues. They may recommend a combination of treatments, such as lifestyle changes, medication, or assisted reproductive technologies, depending on the cause of your fretility issues and your individual circumstances.] I have not had an information consult and obstetrician and gynaecologist of may be a sign of a hormonal imbalance or other underlying medical conditions. In some cases, weight changes, certain medications, and underlying health issue that may note be addressed. Inhalf provides for a proper eval and to speak with a healthcare provider for a proper eval and to speak with a healthcare provider for a proper eval and to speak with a healthcare provider for a proper evaluation and to rule out any other possibly order tests to determine the cause of your irregular menstrual cycles, however, i
<pre>In [7]: Out[7]:</pre>	prescribed with no effect on baby. You can continue taking metronidazole and need to continue breastfeeding, it is important to monitor your baby for any potential side effects, such as irritability, vomiting, diarrhea, or unusual sleepiness.\n\nThere are alternative medications that may be used to treat amoebiasis in breastfeeding mothers. These may include other antibiotics, such as paromomycin or tinidazole. It is important to discuss the best treatment options with your healthcare provider, taking into account the specific type and severity of your infection and the potential risks and benefits to you and your baby. Your healthcare provider can help you determine the most appropriate treatment for your specific situation.] 1.2 Data Cleaning First, inspect the data for missing values # find any missing/NA values # find any missing/NA values # find any missing/NA values
In [8]:	No missing values were found. Since each answer is a list, a list containing just empty strings will not be considered by panda's isna() function as a NA value. Thus, we will also inspect the dataframe for empty strings. #check for empty strings for i in range(len(df)): human_ans = df.at[i, 'human_answers'] gpt_ans = df.at[i, 'chatgpt_answers'] if '' in human_ans or '' in gpt_ans:
	print('empty string at ' + str(i) + ', dropping row') df.drop(i, axis=0, inplace=True) empty string at 758, dropping row empty string at 946, dropping row empty string at 1209, dropping row Some empty strings were found. Since these empty strings make up an insignificant portion of the dataset (0.24%), they can be removed without significantly changing the makeup of the dataset. Next, reset the indexes of the dataset without the removed rows (so that it can be iterated over later)
In [9]: In [10]: Out[10]:	<pre>df.drop(df.columns[0], axis=1, inplace=True) We will describe the dataset to inspect the values contained within df.describe(include='all')</pre>
In [11]: Out[11]:	There are some duplicated values in the 'human_answers' column. We will explore these duplicated answers further. df [df ['human_answers'] . duplicated (keep=False)] question
	only after seeing directly. I suggest you to upload photographs of the same on this website, so that I can guide you scientifically. Hope my answer was helpful for you. I am happy to help any time. Further clarifications and consultations we have been using it for like 6 monthsfamily doctor gave us only after seeing directly. I suggest you to upload photographs of the same on this website, so that I can guide you scientifically. Hope my answer was helpful for you. I am happy to help any time. Further clarifications and consultations on Health care magic are welcome. If you do not have any clarifications, you can close the discussion and rate the answer. only after seeing directly. I suggest you to upload photographs of the same on this website, so that I can guide you scientifically. Hope my answer was helpful for you. I am happy to help any time. Further clarifications and consultations on Health care magic are welcome. If you do not have any clarifications, you can close the discussion and rate the answer.
	wish your kid good health.Dr. Sumanth MBBS., DCH., DNB crusty lookign now. What could the bumps on the hip of a child be indicative of?My daughter is 5 years old ans she has like 7 little bumps on the right side of her Wish your kid good health.Dr. Sumanth MBBS., DCH., DNB (Paed).,] Wish your kid good health.Dr. Sumanth MBBS., DCH., DNB (Paed).,] Wish your kid good health.Dr. Sumanth MBBS., DCH., DNB (Paed).,] Irritating moisturizer. If the condition does not improve with treatment or if it worsens, it is important to contact a healthcare provider for further evaluation and management.] Irritating moisturizer. If the condition does not improve with treatment or if it worsens, it is important to contact a healthcare provider for further evaluation and management.] Irritating moisturizer. If the condition does not improve with treatment or if it worsens, it is important to contact a healthcare provider for further evaluation and management.] Irritating moisturizer. If the condition does not improve with treatment or if it worsens, it is important to contact a healthcare provider for further evaluation and management.] Irritating moisturizer. If the condition does not improve with treatment or if it worsens, it is important to contact a healthcare provider for further evaluation and management.]
	hip and they are not chicken poxs they are hard kinda and at one point they were red and now they are turning a brown colorcan you tell me what they could possibly be? hip and they are not chicken poxs to help any time. Further clarifications and consultations on Health care magic are welcome. If you do not have any clarifications, you can close the discussion and rate the answer. Wish your kid good health.Dr. Suggest treatment hip and they are not chicken poxs to help any time. Further clarifications and consultations on Health care magic are welcome. If you do not have any clarifications, you can close the discussion and rate the answer. Wish your kid good health.Dr. Suggest treatment Suggest treatment Suggest treatment hip and they are not chicken poxs to help any time. Further clarifications, foods, or other substances can cause bumps on the skin that may be red and swollen.\n\nAllergic reactions: Allergic reactions:
	Health Care magic. Skin conditions are best diagnosed only after seeing directly. I suggest you to upload photographs of the same on this website, so that I can guide you scientifically. Hope my answer was helpful for you. I am happy to help any time. Further clarifications and consultations on Health care magic are scab, fall off, and
	welcome. If you do not have any clarifications, you can close the discussion and rate the answer. Wish your kid good health.Dr. Sumanth MBBS., DCH., DNB (Paed).,] These duplicated values are messages asking a patient to visit the doctor for a direct consultation for their skin issue. Since this is considered a valid human reply, we will keep these values. Melcome. If you do not have any clarifications, you can close the discussion and rate the answer. Wish your kid good health.Dr. Sumanth MBBS., DCH., DNB (Paed).,] These duplicated values are messages asking a patient to visit the doctor for a direct consultation for their skin issue. Since this is considered a valid human reply, we will keep these values. Also, there are 8 rows (0.64%) of chatgpt answers that are duplicate error messages. These rows will be removed once the dataframe has
<pre>In [12]: Out[12]: In [13]:</pre>	been processed further (as it will be easier to remove them after the dataframe is converted to strings) Next, we will inspect the dataframe's data types # check datatypes df.dtypes question object human_answers object chatgpt_answers object dtype: object The dataframe will be converted to the string datatype. #convert to string df = df.astype(str) Next, we will need to strip the trailing/leading square brackets from the answers, and remove any newline characters (\n).
In [14].	<pre># strip leading/training square brackets and quotation marks for i in range(len(df)): human_ans = df.at[i, 'human_answers'] human_ans = human_ans.lstrip('[\'\"') human_ans = human_ans.rstrip(']\'\"') human_ans = human_ans.replace('\\n', "") df.at[i, 'human_answers'] = human_ans gpt_ans = df.at[i, 'chatgpt_answers'] gpt_ans = gpt_ans.lstrip('[\'\"') gpt_ans = gpt_ans.rstrip(']\'\"') gpt_ans = gpt_ans.replace('\\n', "") df.at[i, 'chatgpt_answers'] = gpt_ans</pre>
Out[15]:	count 1245 1245 unique 1245 1245 Does Primolut N taken during pregnancy affect the baby?Hi doctorI have taken primoult nablet twice daily for 5 days to delay my periods in the month of march.l was not aware of the pregnancy at that time but now when I tested in April month it is positive in pregnancy.so my question here is does this tablet effect my baby freq 1 1 3 9 Now that the dataframe has been converted to strings, we can easily remove the rows containing the chatgpt error messages
<pre>In [16]: In [17]: Out[17]:</pre>	df describe (include='all') The count 1236 1236 1236
	freq 1 3 3 1 1.3 Data Reshape We will also need to reshape the dataframe to seperate human and chatgpt answers into distinct rows. First, we will seperate the dataframe into 2 seperate dataframes, each containing only 1 type of answer. We will also add an additional 'is_human' column to each dataframe, indicating if the answer was generated by a human
In [20]: Out[20]:	<pre>df_human = df[['question', 'human_answers']].copy() #copy the question and human answers df_human['is_human'] = 1 #set a column indicating if the answer is human df_human.rename(columns = {'human_answers':'answer'}, inplace = True) # rename column to answer df_human.sample(2)</pre>
In [21]:	chest and immediately started having chest & back pains. My chest still hurts today but my back is in really bad pain. I ve also been getting chills all day but don t know if that has any connections with my injury Is there any convention? And should I go to a doctor? How to conceive while being treated for Cystitis and bilateral Poly cystic ovary ?Hi there, I m 24 years old and having bilateral PCOS and Cystitis last month. My OB told me not to have my diet since im only 40kgs at 4 11. My OB advise me to take YAZ for 3 mos. Hope you can help, as I want to get pregnant. # do the same for chatgpt answers df_gpt = df[['question', 'chatgpt_answers']].copy() df_gpt['is_human'] = 0 df_gpt.rename(columns = {'chatgpt_answers': 'answer'}, inplace = True) df_gpt.sample(2)
Out[21]:	Have prostrate elongation problem. Suggested renopho, active, nexiron. Possibility of reducing the medicines?hello sir my father is ailing from one of kidney problem (some prostrate elongation problem) blood urea- 65mg/l screatinine 4.1 mg and he has been suggested following medics renopho.s, active(2.25), nexiron, aplazar, lezon(5mg), cudoforte capsule. Could you please help me to reduce my medicines if possible. In any way u could help me i will be very grateful to youRegards Abdominal pain, prescribed silbostin and BP tablet. Had pain before and diagnosed fatty lever
<pre>In [23]: Out[23]:</pre>	<pre>df_cleaned = pd.concat([df_human, df_gpt]) df_cleaned.sample(3)</pre>
	Suggest remedy for fever, cough and stuffy nosemy seven months old girl have fever and then chill only at night time ,it happen on 2 nights(friday. sat).she look tired and sleepy, still eat but less than usual, cough abit and vomit abit when she cough.stuffy nose. my husband is sick, she get it from him,?????what can
	Feeling of fear on seeing new person, driving, fan movements. No relief with treatment. Cause and remedy?hi i am S.K.NAG from bhubaneswar, i am always feel affraid to see building,new peson, who drive bike,when i sleep ar some, to fan movement, when i going on lift, when i see showroom i am suffering this since last 1 year, i am consult doctor but i am not ok til now, plase give me information about the problem what can id o. How can I remove dark spots due to skin cell rupture?sir, i have some injury on my face, which causes my skin cell rupture perhaps, so dark spot come, how can i remove this?????????
<pre>In [25]: Out[25]: In [26]: In [27]: Out[27]:</pre>	df_cleaned['is_human'].value_counts() 1 1236 0 1236 Name: is_human, dtype: int64 Lastly, we will shuffle the order of the answers
	pregnancy in HBV negative wife & HBV positive husband?! have been TTC from past 1.5 years. The blood test resulted all normal for me and for my husband, it is Hepatitis - B positive. Will this is the cause for not getting conceived (Wife being HBV negative and Husband being HBV - positive)? What is the solution if we want to conceive? Is a painful, dry and cracked wart dangerous?! Delieve I have a wart on my leg, but it has been there for several years. It has actually gotten pregnancy in HBV negative wife & HBV negative woman during pregnancy or childbirth is relatively low, and can be further reduced with proper preventive measures. If you and your husband are planning to conceive and you are HBV-negative, it is recommended that you get vaccinated against HBV before becoming pregnant. This will provide you with immunity to the virus and reduce the risk of transmission to you are habv-negative, it is recommended that you get vaccinated against HBV before becoming pregnant. This will provide you with immunity to the virus and reduce the risk of transmission to you are unable to get vaccinated against HBV before becoming pregnant. This will provide you with immunity to the virus and reduce the risk of transmission to you are unable to get vaccinated before becoming pregnant. This will provide you with immunity to the virus and reduce the risk of transmission to you are unable to get vaccinated against HBV before becoming pregnant. This will provide you with immunity to the virus and reduce the risk of transmission to you are unable to get vaccinated before becoming pregnant. This will provide you with immunity to the virus and reduce the risk of transmission to you are unable to get vaccinated before becoming pregnant. This will provide you with immunity to the virus and reduce the risk of transmission to you are unable to get vaccinated before becoming pregnant. This will provide you with immunity to the virus and reduce the risk of transmission of HBV with you get vaccinated against HBV before becoming preg
	bigger and now the top is dried and cracked in half. It did not respond to ot medicine and it has became painful. Could it be something besides a wart? Noticed pink mucus during periods is it normal ?Yes I didn't have a period for 4 months and on wasn't having sex at the time I started having sex again in dec and I came on my period dec7-dec 13 then again dec23-27 and now today dec 29 when I go to wipe after voiding on the toilet paper it had lite pink mucus like on it! Can you profile including estrogen, progesterone, LH and FSH. With this workup the possible cause for your prosting and the extracted by a feathcast publication in cause and appropriate treatment. They will be able to examine the growth and determine if it is a wart or something else, and recommend the appropriate course of treatment. It is not recommended to try to treat the growth at home, as this can potentially make the situation worse or lead to further complications. Hi,The possible causes for the spotting are :-According to your menstrual history, there is possibility of hormonal imbalance. Hormonal imbalance can lead to intermenstrual spotting, prolonged spotting after cessation of menstrual flow etc symptoms Post coital tear- Local lesions like cervical erosion, polyps etc. If the spotting subsides and if you get your next cycle as expected, no need to worry. If the spotting continues or recurs in next menstrual cycles, better to get evaluated. Go for examination, ultrasound and hormonal profile including estrogen, progesterone, LH and FSH. With this workup the possible cause for your problem can be identified and treated. Take care.
	mucus like on it! Can you explain to me what may be happening should! be worried? 1.3 Data Construction We will also create a lemmatised, stopword-less version of each answer for later usage. First, initialise the lemmatiser, and the corpus of stopwords. The corpus used will be NLTK's general English stopword corpus.
In [32]: In [33]:	<pre>lemmatizer = WordNetLemmatizer() stopwords = stopwords.words('english') # also create empty column for filtered answer df_cleaned['filtered_answer'] = ""</pre> Next, iterate through each answer, removing the stopwords and lemmatising the answer.
<pre>In [34]: Out[34]:</pre>	<pre># tokenise the answer tokens = word_tokenize(answer) # remove stopwords tokens_no_stopwords = [token for token in tokens if token not in stopwords] # lemmatise answer lemmatised_tokens = [lemmatizer.lemmatize(token) for token in tokens_no_stopwords] # store filtered answer in new column df_cleaned.at[i, 'filtered_answer'] = ' '.join(lemmatised_tokens)</pre> df_cleaned.sample(3) df_cleaned.sample(3)
	Any suggestion for having SGPT level of 1337My age is 42 and male. I had a dengue fever 10 days back and my platelet count is 95 K. and serum biliuribin is .08-1.00, which is in normal lable after that one more count of pletelet which is now 1,90,000.00, but my sgpt is quite high is 133. Pls advise. Provided high is 133. Pls advise. Elevated levels of SGPT (serum glutamic-pyruvic transaminase), also known as alanine aminotransferase (ALT), can be a sign of liver damage or disease. It important to consult with a healthcare professional for proper diagnosis and treatment. There are many potential causes of elevated SGPT, including viral infection such as hepatitis, alcohol abuse, and certain medications. In your case, it is possible that the dengue fever you had may have contributed to the elevation in your bealthcare provider and to undergo further testing to determine the underlying cause of your elevated SGPT. This may include blood tests, imaging studies, and possibly a liver biopsy. Treatment may involve medication, lifestyle change, or in some cases, surgery.It is also important to maintain a healthy lifestyle, including eating a well-balanced diet, avoiding alcohol or limiting consumption, and exercising regularly to support liver health. Recurring pain in upper left
	abdomen, occurs on yawning, coughing, shallow breathing. Causes for symptoms?I have been experiencing recurring pain in my upper left abdomen - this is my 3rd attach in 7 weeks. Usually the pain will be severe for the first 2 - 3 days and then will mainly become troublesome when yawning / coughing / deep breathing. There are times when the pain can be bad it prevents me from breathing properly - mainly shallow breathing . Any suggestions of what this could be? Upper right abdominal pain radiating to back soon after eating food. Ultrasound normal. Suggestions?i get pain in the upper right abdomen abdomen, occurs on yawning, coughing, shallow breathing. All Thanks for posting your query. With the available described symptom location pain, appears possibility left sided chest pathology, splenic flexure (part of large intestine) obstruction, left kidney stones. You should so for ultrasound imaging and chest x ray on preliminary basis. If necessary then you should also go CT abdomen and colonscopy. mean while, you should take antispasmodics along with NSAIDs. You should take soft diet and do bed rest. take care, Dr. Mayank Bhargava Upper right abdominal pain radiating to back soon after eating food. Ultrasound normal. Suggestions?i get pain in the upper right abdomen welcome to krm as u have it upper abd pain no faver & welcome hcm, u rt upper abd pain
	normal. Suggestions?i get pain
In [35]: In [36]:	First, import additional modules and initialise empty columns for the extracted features. from nltk.tokenize import sent_tokenize df_cleaned['word_count'] = 0 df_cleaned['sentence_count'] = 0 df_cleaned['avg_sentence_len'] = 0 Next, iterate through each answer, extracting the word count, sentence count, and average sentence length.
In [38]:	
In [40]: Out[40]:	df_cleaned.sample(2) question answer is_human filtered_answer word_count sentence_count avg_sentence_len Painful leg and hand cramps, worse at night. Taking chemotherapy for bowel for bowel for bowel and cord Patients with peripheral neuropathy. Peripheral neuropathy is disorder of nerves apart from the brain and spinal cord Patients with peripheral neuropathy disorder nerve
	cancer. Treatment?My mother has been having painful foot leg and hand cramps and they are becoming unbearable. She had chemotherpy last year the final dose being december the cancer was of the bowel and her latest 6 month test says she is in premission. Treatment?My mother has been having pain and pain of the affected area. Oftentimes, the symptoms are often present in the areas covered by gloves or stockings, peripheral neuropathy may tingling , numbness, unusual sensation, weakness, or burning pain affected area. Oftentimes, symptom symmetrical and involve both hands and feet. Because the symptoms are often present in the areas covered by gloves or stockings, peripheral neuropathy in the affected area. Oftentimes, symptom symmetrical involve hand foot a Because symptom often present area covered glove stocking of distribution of symptoms. Chemotherapeutic drugs cause peripheral neuropathy in apt time pain affected area. Oftentimes, symptom symtemical and involve hand foot a Because symptom often present area covered glove stocking of distribution symptoms. Chemotherapeutic drugs cause peripheral neuropathy in apart brain spinal cord. Patients peripheral neuropathy may thest ingling, numbness, unusual sensation, weakness, burning pain affected area. Oftentimes, symptom ser often present area covered glove stocking of distribution of symptoms. Chemotherapeutic drugs cause peripheral neuropathy in apart brain spinal cord. Patients peripheral neuropathy may tingling, numbness, unusual sensation, weakness, burning pain affected area. Oftentimes, symptom symetrical and involve hand foot a Because symptom often present area covered glove stocking of distribution symptoms are accovered glove stocking of distribution symptoms are accovered glove stocking of peripheral neuropathy in apart brain spinal cord. 1 defected area. Oftentimes, the symptom sare often present area covered glove stocking of distribution symptoms area covered glove stocking of distribution symptoms area covered glove stocking of distribu
	would the chemo be responsible for her symptoms and is there anything she can do to relieve them? they seem to be worse at night. What causes tightness around my chest while eating?hil recently started having tightness around chest steams around chest stightness around chest steams around chest steams around chest stables around chest steams around chest steams around chemost stables around chest steams around chemost stables around chest steams around chest steams around chemost stables around chemost stables around chest steams around chemost stables around chemost stables around chemost satisfication and stables around chemost stables around chemost satisfication and stables around chemost stables around chemostherapy drug oxaliplatin cause occurrence CIPN high 70 90 %.CIPN take time get reduced. It take 6 month 1 year completion chemotherapy get reduced totally. Your mother take tablest Lyrica 75 mg twice daily food 1 month. It contains pregabalin which will help her to reduce her painful condition. Thanks for your question on Health Care Magic. I can understand your concern. In my opinion, you are mostly having tightness around chest stomach tends to course not permitted to acuse occurrence CIPN high 70 90 %.CIPN take time get reduced. It take 6 month 1 year completion chemotherapy get reduced totally. Your mother take tablest Lyrica 75 mg twice daily food 1 month. It contains after beautiful to acuse occurrence CIPN high 70 90 %.CIPN take time get reduced. It take 6 month 1 year completion chemotherapy get reduced. It take 6 month 1 year completion chemotherapy get reduced totally. Your mother take tablest Lyrica 75 mg twice daily food 1 month. It contains after a beautiful to acuse occurrence CIPN high 70 90 %.CIPN take time get reduced. It ake 6 month 1 year completion chemotherapy get reduced. It ake 6 month 1 year completion chemotherapy get reduced. It ake 6 month 1 year completion chemotherapy get reduced. It ake 6 month 1 year completion chemotherapy get reduced totally. Your mother cause of
	Because of this fine acid of the stomach tends to come up in the stomach tends to come up in the sophagus and cause the symptoms of Central chest pain, fullness, chest pressure etc. So better follow step. 1. 1872 Pagular dinner and tightness in my chest. Let me know what is wrong. Does consuming hot food make this happen? I have thyroid and is the only medication I take25mg capsules. Pagulars dinner as somach tends come esophagus cause symptom Central chest pain, fullness, chest pressure etc. So better follow step. 1. Avoid stress and tension. 2. Avoid large meal, instead take frequent small meal. Avoid junk food. 3. Start proton pump inhibitors and prokinetic drugs. 4. Go for walk after meals. 5. Keep 2-3 pillows under head in the bed to prevent reflux. 6. Loose weight if you are obese. 7. Quit smoking and alcohol if you have these habits. Don't worry, you will be alright. Hope I have solved your query. Wish you good health. Thanks.
In [41]: In [42]:	<pre>from textblob import TextBlob df_cleaned['polarity'] = 0 df_cleaned['negativity'] = 0 df_cleaned['neutrality'] = 0</pre>
In []: In []:	<pre>df_cleaned['neutrality'] = 0 df_cleaned['subjectivity'] = 0 Next, initialise the NLTK VADER sentiment analyser analyser = SentimentIntensityAnalyzer() Next, iterate through each filtered answer (lemmatised + stopwords removed), extracting the negativity (NLTK only), polarity (both), and subjectivity (TextBlob only) of each answer.</pre>
In []:	
In [44]: Out[44]:	<pre># extract subjectivity using textblob df_cleaned.at[i, 'subjectivity'] = textblob_scores.subjectivity df_cleaned.sample(2) question</pre>
	Ibs. I have been experiencing weird heart flutters and skipped beats. It mostly happens any doubts. For more information consult a at the gym lifting weight, and taking a deep breath in while doing so. I have always exercised without experiencing such feelings. It is very annoying, and I am I a
	and I am quite concerned. Hope you can help. Is elevated PSA level symptom of cancer?HI I recently finished a 21 day course
	day course of cipro for an elevated psa of 4.46 which was discovered in May. The prostate cancer like: cancer like: prostatitis end result was an increase of examination and imaging studies like Ultrasound may that I am 66 years old and less that I am a year ago my count was 2.9. I am to have a biopsy done in one weekst time. Does this

In [48]:	<pre>from sklearn.model_selection import train_test_split from sklearn.preprocessing import StandardScaler Split the dataset into independent variables (x) and the dependent (target) variable (y) # split into target and independent variables x = df_cleaned[['word_count', 'sentence_count', 'avg_sentence_len', 'polarity', 'negativity', 'neutrality', 'st y = df_cleaned['is_human'] # target Additionally, we will also scale the x values using sci-kit's StandardScaler. This scales each x value so that they have the same scale and</pre>
In [49]: In [50]:	dimension, which prevents differently-scaled variables from introducting biases into the modelling. # init scaler scaler = StandardScaler() x_scaled = scaler.fit_transform(x) Split data into testing (20%) and training (80%) sets using sklearn's train_test_split
In [71]: Out[71]:	
In [92]:	
In []: In [85]:	<pre># !pip install matplotlib # !pip install numpy from sklearn.metrics import accuracy_score, confusion_matrix, ConfusionMatrixDisplay, roc_curve, roc_auc_score import matplotlib.pyplot as plt import numpy as np</pre> 4.1 False Positive Rate, True Positive Rate, and Equal Error Rate
	First, we will plot the model's confusion matrix
	gpt - 223 23 23 - 175 - 150 - 125 - 100 - 75
In [90]:	numan - 50 -50 -25 Next, we will use the values in the confusion matrix to calculate the model's False Positive Rate (FPR) and True Positive Rate (TPR) # compute FPR and TPR (recall)
	<pre>false_pos_rate = con_matrix[0][1] / (con_matrix[0][0] + con_matrix[0][1]) true_pos_rate = con_matrix[1][1] / (con_matrix[1][0] + con_matrix[1][1]) print(f'FPR is ' + format(false_pos_rate * 100, '.3f') + '%') print(f'TPR is ' + format(true_pos_rate * 100, '.3f') + '%') FPR is 9.350% TPR is 94.779% Lastly, we will compute the model's Equal Error Rate, using the method proposed in James S. [2017] # generate roc curve, and fpr, tpr lists and the threshold fpr, tpr, threshold = roc_curve(y_test, y_prob, pos_label = 1)</pre>
	<pre>fpr, tpr, threshold = roc_curve(y_test, y_prob, pos_label = 1) # compute false negative rate fnr = 1 - tpr # find the threshold where the EER occurs eer_threshold = threshold[np.nanargmin(np.absolute((fnr - fpr)))] #find EER eer = fpr[np.nanargmin(np.absolute((fnr - fpr)))] print(f'EER is ' + format(eer * 100, '.3f') + '%') EER is 7.317% 4.2 Accuracy and ROC Score Use scikit-learn's built-in functions to find the model's accuracy and AUROC score</pre>
In [87]:	<pre>accuracy = accuracy_score(y_test,y_prediction) roc_score = roc_auc_score(y_test,y_prediction)</pre>
	[1] James S. 2017. Answer to "Equal Error Rate in Python." Stack Overflow. Retrieved June 7, 2023 from https://stackoverflow.com/a/46026962