Instagram Policy In [1]: import numpy as np import pandas as pd import seaborn as sns import matplotlib.pyplot as plt In [2]: from google.colab import drive drive.mount('/content/drive') Mounted at /content/drive In [3]: dataset policy= pd.read csv('/content/drive/MyDrive/instagram policy.txt', delimiter = '\t') In [4]: dataset policy Out[4]: **Instagram Data Policy** This policy describes the information we proce... I. What kind of information do we collect? 2 To make all Facebook products available, we mu... The work you and others do and provide. Information and materials you provide. We coll... 94 Facebook, Inc. 95 **ATTN: Privacy Operations** 1601 Willow Road 96 97 Menlo Park, CA 94025 Date of last revision: 11 January 2021 98 99 rows × 1 columns **TEXT PREPROCESSING** Removing all unwanted characters like email extensions and other non relevant details In [5]: import re def cleanningunwanted(text): $text = re.sub('[0-9]+.\t','',str(text))$ $text = re.sub('\n','',str(text))$ $text = re.sub('\n','',str(text))$ text = re.sub("'s",'',str(text)) text = re.sub("-",' ',str(text)) text = re.sub("- ",'', str(text)) text = re.sub('\"','',str(text)) text = re.sub("[(([].*?[())]]", "", str(text))return text # preprocessing speeches dataset policy['Instagram Data Policy'] = dataset policy['Instagram Data Policy'].apply(cleanningunwanted) In [6]: dataset policy Out[6]: **Instagram Data Policy** This policy describes the information we proce.. I. What kind of information do we collect? 2 To make all Facebook products available, we mu... 3 The work you and others do and provide. Information and materials you provide. We coll... Facebook, Inc. 94 95 ATTN: Privacy Operations 96 1601 Willow Road 97 Menlo Park, CA 94025 Date of last revision: 11 January 2021 98 99 rows × 1 columns Installed matcher library from spacy to just extract those text lines which follows a specific pattern from the dataset In [7]: import spacy from spacy.matcher import Matcher # load english language model nlp = spacy.load('en core web sm',disable=['ner','textcat']) In [8]: result = []In this function we are finding all the lines which follow a specific pattern. A pattern which gives sentences telling about users consent and choice. These patterns are generic in nature meaning commonly used words in privacy policies of different companies denoting user consent In [9]: def sent subtree(text): patterns = $[r'\b(?i)'+'you\ allow'+r'\b',$ r'\b(?i)'+'you provide'+r'\b', r'\b(?i)'+'you use'+r'\b', r'\b(?i)'+'accept'+r'\b', r'\b(?i)'+'you share'+r'\b', r'\b(?i)'+'agree'+r'\b', r'\b(?i)'+'consent'+r'\b' r'\b(?i)'+'personal'+r'\b', doc = nlp(text)flag = 0# if no initiative present in sentence for pat in patterns: if re.search(pat, text) != None: flag = 1print(pat) break **if** flag == 1: result.append(text) In [10]: initial = dataset policy["Instagram Data Policy"] In [11]: print(initial) This policy describes the information we proce... I. What kind of information do we collect? make all Facebook products available, we mu... 3 The work you and others do and provide. 4 Information and materials you provide. We coll... 94 Facebook, Inc. 95 ATTN: Privacy Operations 96 1601 Willow Road 97 Menlo Park, CA 94025 Date of last revision: 11 January 2021 Name: Instagram Data Policy, Length: 99, dtype: object This function is just to separate all the different sentences. We separate sentences with full stop. They are more than one full stop delimited sentences in a single in the text file. Hence we are separating each sentence for better pattern matching In [12]: interim = [] In [13]: def separation(text): import spacy nlp = spacy.load('en') tokens = nlp(text)for sent in tokens.sents: interim.append(sent.string.strip()) In [14]: interim = [] for i in initial: separation(i) Outputting the patterns matched in the lines In [15]: for i in interim: sent subtree(i) /usr/local/lib/python3.7/dist-packages/ipykernel launcher.py:19: DeprecationWarning: Flags not at the start of the expression '\b(?i) you allow\b' /usr/local/lib/python3.7/dist-packages/ipykernel launcher.py:19: DeprecationWarning: Flags not at the start of the expression '\b(?i)you provide\b' /usr/local/lib/python3.7/dist-packages/ipykernel launcher.py:19: DeprecationWarning: Flags not at the start of the expression '\b(?i) you use\b' /usr/local/lib/python3.7/dist-packages/ipykernel launcher.py:19: DeprecationWarning: Flags not at the start of the expression '\b(?i)accept\b' /usr/local/lib/python3.7/dist-packages/ipykernel launcher.py:19: DeprecationWarning: Flags not at the start of the expression '\b(?i) you share \b' /usr/local/lib/python3.7/dist-packages/ipykernel launcher.py:19: DeprecationWarning: Flags not at the start of the expression '\b(?i)agree\b' /usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:19: DeprecationWarning: Flags not at the start of the expression '\b(?i)consent\b' /usr/local/lib/python3.7/dist-packages/ipykernel launcher.py:19: DeprecationWarning: Flags not at the start of the expression '\b(?i)personal\b' \b(?i) you use\b \b(?i)you provide\b \b(?i)you provide\b \b(?i) you provide\b \b(?i)you share\b \b(?i)you use\b \b(?i)you use\b \b(?i)you use\b \b(?i)you use\b \b(?i)you use\b \b(?i)you allow\b \b(?i)you use\b \b(?i)you use\b \b(?i)you use\b \b(?i)you share\b \b(?i)you share\b \b(?i)you use\b \b(?i)you share\b \b(?i)you share\b \b(?i) you share\b \b(?i) you use\b \b(?i) you share\b \b(?i)you share\b \b(?i) you use\b \b(?i) you share\b \b(?i) you share\b \b(?i)you use\b \b(?i) you share\b \b(?i)consent\b In [16]: print(result) ['The information we collect depends on how you use our products.', 'Information and materials you provide.', 'We collect the content, communications and other information you provide when you use our products, including when you sign up for an account, create or share content, and message or interact with other people doing is in volved.', 'This may include information about or related to the content you provide, such as the location of a photo or the date the file was created.', 'Learn more about how to control who can see the content you share .', 'We collect information about how you use our products, such as the types of content you view or link to; t he features you use; actions you take; The people or accounts you interact with and the time, frequency and dur ation of your activities.', 'We also collect information about how you use our features, such as our camera.', 'If you use our products for purchases or financial transactions , we collect information about those purchases or transactions.', 'you use that are linked to our products and we collect this information from you.', 'But as you see when you use our product on your laptop or tablet or we use this information to determine whether you t ook any action in response to an advertisement we displayed on your mobile or other device .', 'Data from Devic e Settings: Information you allow us to collect when you turn on Device Settings, such as your GPS location, ac cess to the camera or photos.', "These partners make available information about your activities off Facebook-i ncluding information about your device, the websites you visit, the purchases you make, the ads you see, and wh ether you use their How you use the Services-regardless of whether or not you have a Facebook account or whethe r you're logged into Facebook.", 'know ; how you use and interact with our products; and the people, places, or things that you are associated with and are interested in, on or off our products.', 'Across all Facebook Produ cts that you use, we link information about your activities across various Facebook products and devices, for a more unique and consistent experience, regardless of where you use them.', 'The people and accounts with whom y ou share and communicate with.', 'When you share and communicate using our products, you choose the audience fo r the information to be shared .', 'Similarly, when you use Messenger or Instagram to communicate with people o r do business, those people and businesses can see the contacts you send.', 'This includes your Instagram usern ame; all information you share with a public audience; information in your public profile on Facebook; and Fac ebook Pages, public Instagram accounts, or any other public platform such as Facebook MarketplaceBut', 'the con tent you share is included.', 'For example, when you share a post or send a message to a specific friend or acc ount, they may download screenshots of that content or share that content on or off all of our products in thei r own or virtual reality experiences, such as You can re share with others on Facebook places .', 'When you use third party applications, websites or other services that use or are linked to our products, they may receive i nformation about what you post or share.', 'What you share on Facebook from the website.', 'Also, when you down load or use such third party services, they may access your public profile on Facebook and any information you share with them.', 'Apps or websites you use may receive your Facebook friends list, If you choose to share it with them.', 'When you subscribe to receive premium content or purchase something from a seller in one of our p roducts, the content creator or seller may receive your public information and other information that you share with them, including shipping And also get the information required to complete the transaction including conta ct details.', 'See Facebook settings and Instagram settings to learn more about how you and others control the information you share about you with third party partners .', 'Facebook and Instagram integrate the infrastruct ure, systems, and technology with other Facebook companies to deliver a new, relevant, consistent and secure ex perience across all Facebook Company products that you use..', 'Cookie data received through content you share and social plug ins Learn more about deleting.', 'Rely on and obtain your consent to these data transfers to th e United States and other countries.'] The next two cells show the result. The first cell shows the result in the resultant cell and the second cell is just the dataframe of the result. In [17]: for i in result: print(i) The information we collect depends on how you use our products. Information and materials you provide. We collect the content, communications and other information you provide when you use our products, including w hen you sign up for an account, create or share content, and message or interact with other people doing is inv olved. This may include information about or related to the content you provide, such as the location of a photo or th e date the file was created. Learn more about how to control who can see the content you share . We collect information about how you use our products, such as the types of content you view or link to; the fe atures you use; actions you take; The people or accounts you interact with and the time, frequency and duration of your activities. We also collect information about how you use our features, such as our camera. If you use our products for purchases or financial transactions , we collect information about those purchases or transactions. you use that are linked to our products and we collect this information from you. But as you see when you use our product on your laptop or tablet or we use this information to determine whethe r you took any action in response to an advertisement we displayed on your mobile or other device . Data from Device Settings: Information you allow us to collect when you turn on Device Settings, such as your G PS location, access to the camera or photos. These partners make available information about your activities off Facebook-including information about your d evice, the websites you visit, the purchases you make, the ads you see, and whether you use their How you use t he Services-regardless of whether or not you have a Facebook account or whether you're logged into Facebook. know; how you use and interact with our products; and the people, places, or things that you are associated wi th and are interested in, on or off our products. Across all Facebook Products that you use, we link information about your activities across various Facebook pr oducts and devices, for a more unique and consistent experience, regardless of where you use them. The people and accounts with whom you share and communicate with. When you share and communicate using our products, you choose the audience for the information to be shared \cdot Similarly, when you use Messenger or Instagram to communicate with people or do business, those people and busi nesses can see the contacts you send. This includes your Instagram username; all information you share with a public audience; information in your pu blic profile on Facebook; and Facebook Pages, public Instagram accounts, or any other public platform such as Facebook MarketplaceBut the content you share is included. For example, when you share a post or send a message to a specific friend or account, they may download screens hots of that content or share that content on or off all of our products in their own or virtual reality experi ences, such as You can re share with others on Facebook places . When you use third party applications, websites or other services that use or are linked to our products, they may receive information about what you post or share. What you share on Facebook from the website. Also, when you download or use such third party services, they may access your public profile on Facebook and a ny information you share with them. Apps or websites you use may receive your Facebook friends list, If you choose to share it with them. When you subscribe to receive premium content or purchase something from a seller in one of our products, the c ontent creator or seller may receive your public information and other information that you share with them, in cluding shipping And also get the information required to complete the transaction including contact details. See Facebook settings and Instagram settings to learn more about how you and others control the information you share about you with third party partners . Facebook and Instagram integrate the infrastructure, systems, and technology with other Facebook companies to d eliver a new, relevant, consistent and secure experience across all Facebook Company products that you use.. Cookie data received through content you share and social plug ins Learn more about deleting. Rely on and obtain your consent to these data transfers to the United States and other countries. In [18]: df = pd.DataFrame(result, columns=['result']) print(df) The information we collect depends on how you ... Information and materials you provide. We collect the content, communications and oth... This may include information about or related ... Learn more about how to control who can see th... We collect information about how you use our p... We also collect information about how you use ... If you use our products for purchases or finan... you use that are linked to our products and we... 9 But as you see when you use our product on you... 10 Data from Device Settings: Information you all... 11 These partners make available information abou... 12 know; how you use and interact with our produ... 13 Across all Facebook Products that you use, we ... 14 The people and accounts with whom you share an... 15 When you share and communicate using our produ... 16 Similarly, when you use Messenger or Instagram... 17 This includes your Instagram username; all inf... the content you share is included. 19 For example, when you share a post or send a m... 20 When you use third party applications, website... What you share on Facebook from the website. 22 Also, when you download or use such third part... 23 Apps or websites you use may receive your Face... 24 When you subscribe to receive premium content ... 25 See Facebook settings and Instagram settings t... 26 Facebook and Instagram integrate the infrastru... 27 Cookie data received through content you share... 28 Rely on and obtain your consent to these data ... **ZOMATO PRIVACY POLICY** In [19]: import numpy as np import pandas as pd import seaborn as sns import matplotlib.pyplot as plt from google.colab import drive drive.mount('/content/drive') Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", for ce remount=True). In [20]: dataset policy= pd.read csv('/content/drive/MyDrive/zomato policy.txt', delimiter = '\t') In [21]: dataset policy Out[21]: **Privacy Policy** 0 Last updated on April 22, 2020. 1 Zomato Limited (Formerly known as Zomato Priva... 2 the types of information that Zomato may colle... 3 its practices for collecting, using, maintaini... 4 This policy applies only to the information Zo... Mint Hill, NC 28227 154 155 For Users residing in any other part of the wo... 156 Zomato Limited 157 Ground Floor, Tower C, Vipul Tech Square 158 Sector 43, Golf Course Road, Gurugram - 122009... 159 rows × 1 columns In [22]: import spacy from spacy.matcher import Matcher # load english language model nlp = spacy.load('en core web sm',disable=['ner','textcat']) In [23]: result = [] Removing all unwanted characters like email extensions and other non relevant details In [24]: import re def cleanningunwanted(text): $text = re.sub('[0-9]+.\t','',str(text))$ $text = re.sub('\n','',str(text))$ $text = re.sub('\n','',str(text))$ text = re.sub("'s",'',str(text)) text = re.sub("-",' ',str(text)) text = re.sub("- ",'', str(text)) text = re.sub('\"','',str(text)) text = re.sub("[(([].*?[())]]", "", str(text))return text # preprocessing speeches dataset policy['Privacy Policy'] = dataset policy['Privacy Policy'].apply(cleanningunwanted) In this function we are finding all the lines which follow a specific pattern. A pattern which gives sentences telling about users consent and choice. These patterns are generic in nature meaning commonly used words in privacy policies of different companies denoting user consent In [25]: def sent subtree(text): patterns = $[r'\b(?i)'+'you\ allow'+r'\b',$ r'\b(?i)'+'you provide'+r'\b', $r'\b(?i)'+'you use'+r'\b',$ r'\b(?i)'+'accept'+r'\b', r'\b(?i)'+'you share'+r'\b', r'\b(?i)'+'agree'+r'\b', r'\b(?i)'+'consent'+r'\b', r'\b(?i)'+'personal'+r'\b', doc = nlp(text)flag = 0# if no initiative present in sentence for pat in patterns: if re.search(pat, text) != None: flag = 1print(pat) break **if** flag == 1: result.append(text) In [26]: initial = dataset policy["Privacy Policy"] In [27]: print(initial) Last updated on April 22, 2020. 0 1 Zomato Limited and/or its affiliates respect... 2 the types of information that Zomato may colle... 3 its practices for collecting, using, maintaini... 4 This policy applies only to the information Zo... 154 Mint Hill, NC 28227 155 For Users residing in any other part of the wo... 156 Zomato Limited 157 Ground Floor, Tower C, Vipul Tech Square Sector 43, Golf Course Road, Gurugram Name: Privacy Policy, Length: 159, dtype: object This function is just to separate all the different sentences. We separate sentences with full stop. They are more than one full stop delimited sentences in a single in the text file. Hence we are separating each sentence for better pattern matching In [28]: interim = [] In [29]: def separation(text): import spacy nlp = spacy.load('en') tokens = nlp(text)for sent in tokens.sents: interim.append(sent.string.strip()) In [30]: interim = [] for i in initial: separation(i) In [31]: print(len(interim)) Outputting the patterns matched in the lines In [32]: for i in interim: sent subtree(i) \b(?i) you provide\b \b(?i)agree\b \b(?i)personal\b \b(?i)personal\b \b(?i)personal\b \b(?i)personal\b \b(?i)personal\b \b(?i)personal\b \b(?i)personal\b \b(?i)personal\b \b(?i)you use\b \b(?i)you provide\b \b(?i)you provide\b \b(?i)you provide\b \b(?i) you provide\b \b(?i) you use\b \b(?i)personal\b \b(?i) you use\b \b(?i)you use\b \b(?i)personal\b \b(?i)consent\b \b(?i)consent\b \b(?i)you use\b \b(?i)accept\b \b(?i)you use\b \b(?i)consent\b \b(?i) you provide\b \b(?i)consent\b \b(?i)consent\b \b(?i)you provide\b \b(?i)personal\b \b(?i)personal\b \b(?i)personal\b \b(?i)you provide\b \b(?i)you provide\b \b(?i)consent\b \b(?i)consent\b \b(?i) you provide\b \b(?i)agree\b \b(?i)you use\b \b(?i) you use\b \b(?i) you provide\b \b(?i)personal\b \b(?i)personal\b \b(?i)personal\b \b(?i)you provide\b \b(?i)personal\b \b(?i)consent\b The next two cells show the result. The first cell shows the result in the resultant cell and the second cell is just the dataframe of the result. In [33]: for i in result: print(i) This policy DOES NOT apply to information that you provide to, or that is collected by, any third party, such a s restaurants at which you make reservations and/or pay through Zomato Services and social networks that you us e in connection with its Services. By accessing or using its Services and/or registering for an account with Zomato, you agree to this privacy pol icy and you are consenting to Zomato collection, use, disclosure, retention, and protection of your personal in formation as described here. If you reside in a country within the European Union/European Economic Area , Zomato Media Portugal, Unipessoal LDA , located at Avenida 24 de Julho, N 102 E, 1200 870, Lisboa, Portugal, will be the controller of your perso nal data provided to, or collected by or for, or processed in connection with our Services; , NC 28227 will be the controller of your personal data provided to, or collected by or for, or processed in co nnection with our Services; If you reside in any other part of the world, Zomato Limited, located at Ground Floor, Tower C, Vipul Tech Squa re, Sector 43, Golf Course Road, Gurugram 122009, Haryana, India will be the controller of your personal data provided to, or collected by or for, or processed in connection with our Services. Your data controller is responsible for the collection, use, disclosure, retention, and protection of your pers onal information in accordance with its privacy standards as well as any applicable national laws. Zomato may process and retain your personal information on its servers in India where its data centers are loca ted, and/or on the servers of its third parties , having contractual relationships with Zomato. Your Personal Information Personal Information is the information that can be associated with a specific person and could be used to iden tify that specific person whether from that data, or from the data and other information that we have, or is li kely to have access to. We do not consider personal information to include information that has been made anonymous or aggregated so th at it can no longer be used to identify a specific person, whether in combination with other information or oth Information about your internet connection, the equipment you use to access our Services and your usage detail directly from you when you provide it to us; and/or Information You Provide to Us Your content: Information you provide through our Services, including your reviews, photographs, comments, list s, followers, the users you follow, current and prior restaurant reservation details, food ordering details and history, favorite restaurants, special restaurant requests, contact information of people you add to, or notify of, your restaurant reservations through our Services, names, and other information you provide on our Service s, and other information in your account profile. We use the information you provide to us to enhance the functionality and improve the quality of our Services, and to personalize your experience while using our Services. We may automatically collect certain information about the computer or devices you use to access the Services, and about your use of the Services, even if you use the Services without registering or logging in. This may include, for example, photographs, audio and video clips, personal contacts and address book informati Applications: If you use the Zomato application, Zomato may collect information about the presence and/ or abse nce and/ or details pertaining to other applications on your mobile phone. When you use one of our location enabled services , we may collect and process information about your mobile de vice GPS location Some of these services require your personal data for the feature to work If you wish to use the particular feature, you will be asked to consent to your data being used for this purpos You can withdraw your consent at any time by disabling the GPS or other location tracking functions on your dev ice, provided your device allows you to do this. You will need to opt out on each browser and each device you use to access the Services. By using our Services with your browser set to accept cookies you are consenting to our use of cookies in the m anner described in this section. We may collect, process and store your user ID associated with any social media account that you use to sign i nto the Services or connect with or use with the Services. When you sign in to your account with your social media account information, or otherwise connect to your socia l media account with the Services, you consent to our collection, storage, and use, in accordance with this Pri vacy Policy, of the information that you make available to us through the social media interface. In any other way we may describe when you provide the information. For any other purpose with your consent. Even though we do not disclose your personal information for these purposes without your consent, if you click on or otherwise interact with an advertisement, the advertiser may assume that you meet its target criteria. We may disclose personal information that we collect or you provide, as described in this privacy policy, in th e following ways: To contractors, advertisers/service providers and other third parties whom we use to support our business and who are bound by contractual obligations to keep personal information confidential and use it only for the purp oses for which we disclose it to them. To a buyer or other successor in the event of a merger, divestiture, restructuring, reorganization, dissolution or other sale or transfer of some or all of Zomato assets, whether as a going concern or as part of bankruptcy, liquidation or similar proceeding, in which personal information held by Zomato about the users of our Services are among the assets transferred. We contractually require these third parties to keep personal information confidential and use it only for the purposes for which we disclose it to them. To fulfill the purpose for which you provide it. For any other purpose disclosed by us when you provide the information. We may share your information in any other circumstances where we have your consent. If you provide a mobile phone number, restaurants or Zomato may send you text messages regarding your reservati on or order delivery status. By submitting your credit or debit card account information through our Services, you expressly consent to the sharing of your information with restaurants, third party payment processors, and other third party service pro viders , and you further agree to the following terms: When you use a credit or debit card to secure a reservation through our Sites, we provide your credit or debit card account information to our third party payment service providers and the applicable restaurant. We also allow other third parties to serve tailored ads to you on the Services, and to access their own cookie s or similar technologies on your computer, mobile phone, or other device you use to access the Services. We strive to provide you with choices regarding the personal information you provide to us. We do not share your personal information with any advertising agency. If you would like to review, change or delete personal information we have collected from you, or permanently d elete your account, please use the Contact Us link at the bottom of every page , or contact the Zomato Data Pro tection Officer . Accessing & correcting your personal information We will take reasonable steps to accurately record the personal information that you provide to us and any subs equent updates. We encourage you to review, update, and correct the personal information that we maintain about you, and you ma y request that we delete personal information about you that is inaccurate, incomplete, or irrelevant for legit imate purposes, or are being processed in a way which infringes any applicable legal requirement. Your right to review, update, correct, and delete your personal information may be limited, subject to the law of your jurisdiction: We follow generally accepted industry standards to protect the personal information submitted to us, both durin g transmission and once we receive it. You play an important role in keeping your personal information secure. We do not knowingly collect any personal information from users or market to or solicit information from anyone under the Permissible Age. If we become aware that a person submitting personal information is under the Permissible Age, we will delete t he account and any related information as soon as possible. California law permits users who are California residents to request and obtain from us once a year, free of ch arge, a list of the third parties to whom we have disclosed their personal information for their direct market ing purposes in the prior calendar year, as well as the type of personal information disclosed to those partie Right to information including contact details to the DPO, the purposes for processing Personal Information a nd the rights of the individual. Right to access the Personal Information that are processed Right to data portability of the Personal Information supplied to Zomato by the EU resident Thereafter, we will either delete your personal information or de identify it so that it is anonymous and not a ttributed to your identity. Your continued use of the Services following the posting of changes to this Privacy Policy will constitute your consent and acceptance of those changes. In [34]: df = pd.DataFrame(result, columns=['result']) print(df) This policy DOES NOT apply to information that... By accessing or using its Services and/or regi... If you reside in a country within the European... 3 , NC 28227 will be the controller of your pers... If you reside in any other part of the world, ... 4 5 Your data controller is responsible for the co... Zomato may process and retain your personal in... 7 Your Personal Information 8 Personal Information is the information that c... We do not consider personal information to inc... 9 10 Information about your internet connection, th... 11 directly from you when you provide it to us; a... Information You Provide to Us 12 13 Your content: Information you provide through ... 14 We use the information you provide to us to en... 15 We may automatically collect certain informati... 16 This may include, for example, photographs, au... 17 Applications: If you use the Zomato applicatio... 18 When you use one of our location enabled servi... 19 Some of these services require your personal d... 20 If you wish to use the particular feature, you... 21 You can withdraw your consent at any time by d... 22 You will need to opt out on each browser and e... 23 By using our Services with your browser set to... 24 We may collect, process and store your user ID... 25 When you sign in to your account with your soc... 26 In any other way we may describe when you prov... For any other purpose with your consent. 27 28 Even though we do not disclose your personal i... 29 We may disclose personal information that we c... 30 To contractors, advertisers/service providers ... 31 To a buyer or other successor in the event of ... 32 We contractually require these third parties t... To fulfill the purpose for which you provide it. 34 For any other purpose disclosed by us when you... 35 36 We may share your information in any other cir... 37 If you provide a mobile phone number, restaura... 38 By submitting your credit or debit card accoun... 39 When you use a credit or debit card to secure ... 40 We also allow other third parties to serve ta... 41 We strive to provide you with choices regardin... 42 We do not share your personal information with... 43 If you would like to review, change or delete ... 44 Accessing & correcting your personal information 45 We will take reasonable steps to accurately re... 46 We encourage you to review, update, and correc... 47 Your right to review, update, correct, and del... 48 We follow generally accepted industry standard... 49 You play an important role in keeping your per... 50 We do not knowingly collect any personal infor... 51 If we become aware that a person submitting pe... 52 California law permits users who are Californi... 53 Right to information including contact detai... 54 Right to access the Personal Information that ... 55 Right to data portability of the Personal Info... 56 Thereafter, we will either delete your persona... 57 Your continued use of the Services following t... **Amazon Privacy Policy** In [35]: import numpy as np import pandas as pd import seaborn as sns import matplotlib.pyplot as plt from google.colab import drive drive.mount('/content/drive') Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", for ce remount=True). In [36]: dataset policy= pd.read csv('/content/drive/MyDrive/amazon in.txt', delimiter = '\t') In [37]: dataset policy Out[37]: **Amazon.in Privacy Notice** Last updated: October 21, 2020. To see prior v... We know that you care how information about yo... 2 By using Amazon Services you agree to our use ... 3 Personal information subject to this Privacy N... 4 What Personal Information About Customers Does... 183 Click here for customer support. 184 The Grievance Officer is identified above purs... 185 Was this information helpful? 186 Yes 187 No 188 rows × 1 columns In [38]: import spacy from spacy.matcher import Matcher # load english language model nlp = spacy.load('en core web sm',disable=['ner','textcat']) In [39]: result = []Removing all unwanted characters like email extensions and other non relevant details In [40]: import re def cleanningunwanted(text): $text = re.sub('[0-9]+.\t','',str(text))$ $text = re.sub('\n','',str(text))$ $text = re.sub('\n','',str(text))$ text = re.sub("'s",'',str(text)) text = re.sub("-",' ',str(text)) text = re.sub("- ",'',str(text)) text = re.sub('\"','',str(text)) $text = re.sub("[\(\[].*?[\)\]]", "", str(text))$ # preprocessing speeches dataset policy['Amazon.in Privacy Notice'] = dataset policy['Amazon.in Privacy Notice'].apply(cleanningunwanted In this function we are finding all the lines which follow a specific pattern. A pattern which gives sentences telling about users consent and choice. These patterns are generic in nature meaning commonly used words in privacy policies of different companies denoting user consent In [41]: def sent subtree(text): patterns = [r'\b(?i)'+'you allow'+r'\b', r'\b(?i)'+'you provide'+r'\b', r'\b(?i)'+'you use'+r'\b', r'\b(?i)'+'accept'+r'\b', r'\b(?i)'+'you share'+r'\b', r'\b(?i)'+'agree'+r'\b', r'\b(?i)'+'consent'+r'\b' r'\b(?i)'+'personal'+r'\b', doc = nlp(text)flag = 0# if no initiative present in sentence for pat in patterns: if re.search(pat, text) != None: flag = 1print(pat) break **if** flag == 1: result.append(text) In [42]: initial = dataset policy['Amazon.in Privacy Notice'] In [43]: print(initial)

	Description Last updated: October 21, 2020. To see prior v We know that you care how information about yo By using Amazon Services you agree to our use Personal information subject to this Privacy N What Personal Information About Customers Does Click here for customer support. The Grievance Officer is identified above purs Was this information helpful? Yes No Name: Amazon.in Privacy Notice, Length: 188, dtype: object This function is just to separate all the different sentences. We separate sentences with full stop. They are more than one full stop
	delimited sentences in a single in the text file. Hence we are separating each sentence for better pattern matching interim = []
In [46]: In [47]:	
	<pre>\b(?i) agree\b \b(?i) agree\b \b(?i) personal\b \b(?i) you provide\b \b(?i) personal\b \b(?i) personal\b</pre>
	<pre>\b(?i) personal\b \b(?i) you use\b \b(?i) personal\b \b(?i) personal\b</pre>
	<pre>\b(?i)personal\b \b(?i)personal\b \b(?i)personal\b \b(?i)personal\b \b(?i)personal\b \b(?i)personal\b \b(?i)personal\b \b(?i)personal\b \b(?i)personal\b \b(?i)consent\b \b(?i)you use\b \b(?i)you provide\b \b(?i)personal\b </pre> The next two cells show the result. The first cell shows the result in the resultant cell and the second cell is just the dataframe of the result.
In [48]:	For I is ceedily pricated and proceed your personal information through Anabous vessels, devices, monducing, services, on Jros. On leter and proceed your personal information through Anabous vessels, devices, monducing, services, on Jros. On leter and proceed your personal information through Anabous vessels, devices, monducing, services, on Py using Bascon Earthcase you agree to during an experience of the process of the
	You also agree and consent to us collecting, s Personal information subject to this Privacy N What Personal Information About Customers Does For What Purposes Does Amazon Use Your Persona Does Amazon Share Your Personal Information? What Personal Information About Customers Does We collect your personal information in order Here are the types of personal information we Information You Give Us: We receive and store For What Purposes Does Amazon Use Your Persona We use your personal information to operate, p We use your personal information to take and f We use your personal information to provide fu We use your personal information to recommend When you use our voice, image and camera servi In certain cases, we collect and use your pers We use your personal information to communicat We use your personal information to display in We use your personal information to display in Does Amazon Share Your Personal Information?
	Information about our customers is an importan We share customers' personal information only You can tell when a third party is involved in These third party service providers have acces Further, they must process the personal inform Protection of Amazon and Others: We release ac Other than as set out above, you will receive We work to protect the security of your person Our security procedures mean that we may occas To request access to personal information that If you have any questions as to how we collect We stand behind the promises we make, however, Information You Give Us When You Use Amazon Se You provide information to us when you: the personal description and photograph in You