FACEBOOK SENTIMENT ANALYSIS 04

So now let us start with the programming screen cast of facebook sentiment analysis i hope you have watched the previous videos, if you haven't i suggest you to watch the previous videos and start with the program of facebook sentiment analysis and i think you all know what is sentiment analysis now so what is basically sentiment analysis? Sentiment analysis helps you to figure out whether the piece of text is positive negative or neutral yes facebook sentiment analysis will help you realise the sentiment analysis of your facebook data so first of all you need to download your facebook data this tips have already been explained in the previous video so you first download your facebook data store it in a excel file, you download your facebook data and store it in a excel file will be using this excel file in this program so as i already explained you first need to import the pandas library so i will just write import pandas as pd then you also need to import the nltk library which will help you in sentiment analysis, i will write import nltk after that you need to import the vader library so what do you need to do here is, you write from nltk dot sentiment dot vader import sentiment intensity analyser so you need to import these three libraries pandas, nltk and from vader you need to import sentiment intensity analyser then i asked you to download the vader lexicon you can download directly from here i will just write the command please pay attention i will write nltk dot downloader dot download and in bracket you need to write vader underscore lexicon, lexicon basically acts as a dictionary here so you need to also download that for downloading will lexicon you have a command nltk dot downloader dot download and in package you need to download, you need to write vader underscore lexicon hen i will load my file here what my file name is data underscore file dot excel sx this is my file name in the previous videos like in speech recognition you had a doubt that where do we need to store the file which we are going to use in the program for example in speech recognition we used audio file all of you had a doubt that where do we need to store that file, actually you can store that file anywhere in your system bottom line is you need to provide proper path to your file yes, you need to provide proper path to your file for example here my data underscore file is in download so i will give a proper path here the path here is basically users simran setia that is my user name then in that i have the download folder and in that i have my data file ok so i hope that is clear to all of you, you need to provide a proper path ok you can store your file any where nut you need to provide proper path in your program so i have loaded my file that is done it is basically xlsx so i have imported the library i have also downloaded the vader underscore lexicon and then i have also loaded my data file here and next what you need to do is, you need to read from the excel file so i just write excel is equal to pd i will use pandas library to read my excel file i will write excel file and in bracket where is y excel file it has been loaded in the variable file so what this is doing? This is reading from the read from excel i repeat pandas library will help you to it is basically pd dot pandas library will help you to read from the excel file so will write pd because u have imported pandas as pd i will write pd dot excel fie and in bracket i write my file variable name that is file here ok so i have read my excel file with the help of pandas library as i already said pandas provide you easy to use data structure so will be passing this excel file converting this excel file to data frame, what is a data frame? As explained, data frame is a two dimensional structure in a form of a table so data frame will help you to analyse your data easily, as you know pandas

library provide you with the facility you can convert your excel file to some other data structure which are easy to analyse yes so will be converting our excel file to data frames so i just write dfs is equal to xl dot parse and i will write xl dot sheet underscore names zero here we are storing our information in the first column so i will write zero here i will just show you for example in the first column only i have stored all my post information you can see here, i have stored all the information in the first column so i will write zero here so i will write hash what is this statement doing? Parsing the excel sheet to data frame, parsing the excel sheet to data frame next what do you have to do here is you need to update your data frames as per your requirement for example here i have some blank rows here as you can see i have some blank rows here i need to delete this blank rows from my data frames so i will just write dfs is equal to list dfs and in square bracket i will write timeline because that is the name of my column ok and then i also print the all dfs so what it is basically doing here is it is removing the row from the data frame i will write it removes the blank rows from the data frame. So we will just run our program here and see how data frames are coming so i will just run so i first need to store my file i will store facebook dot py so as you can see i have my data in the form of data frames whatever has been written in the excel file is here because i have converted that excel file to data frames so we have the data frames here now we have the data frames next step would be analysing them so we will do sentiment analysis on this data frames so what will i write here, first of all i initialise my sentiment intensity analyser i will write sid is equal to sentiment intensity analyzer then as you can see in my excel file i have this information too that when my post was posted for example the particular time and date is already been is also been return so i need not analyse this information the particular time information so what will i do here is whenever my whenever this sentiment analyser would encounter this the timeline information the time information it won't analyse it, it will only analyse my post ok i repeat here for example i have here Monday march twenty seven twenty seventeen so this has nothing to do with sentiment analysis so i will just remove this i will not remove here from the excel file i will just hardcoded in my program so that whenever my program encounters this particular statement this time information it skips that information and it doesn't do sentiment analysis on that information so i will just write here i will store it in str1 so what is the information it is basically utc plus zero five thirty so it may be different for your for excel file so you need to check in your excel file if there is such kind of information you can skip that information because this has nothing to do with the sentiment analysis so now i will write for data in dfs a is equal to data dot find str1 this particular command will str1 in my excel file in my data frames and if it, it will basically return a Boolean value here for example if it returns minus one here that means it hasn't found that str1 in that particular a for example here i have the data here i have the data and if it encounter this particular line Monday march twenty seven twenty seventeen and it has encounter this str1 also here so it won't return minus one here because it has found that utc plus five thirty here but it hasn't found that utc plus five thirty here that means it is an information that needs to be analysed that we need to analyse the that we need to analyse this particular information we need to perform sentiment analysis on this particular information so if it is hasn't found this str1 that means we need to analyse that particular statement so i will just write ss is equal to sid dot polarity underscore scores data whatever data it has encounter now, now it need to be analyse we needs to perform sentiment analysis on it so it will print

the data here also print the data and then for k in ss write print k and then ss of k it will basically print whether the basic information is positive negative or neutral and it will also print the intensity of the sentiment too i will just run this file then you will get to know what i am trying to say here so i will just run it let us just run it let us just run this so super we have all the information here we have all the timeline information here so for example my first post was this row rohith Sharma wants to read the murder of roger whatever it is and then it has given the polarity also that it is point two five one negative it is point seven four nine neutral and it is zero positive and the it is also given some compound information compound information is aggregate of all the sentiment for example it is negative also neutral also but the compound information says that it is point minus point six nine that means it is negative similarly in the fourth coming post too it has return that is zero negative it is point seven two one neutral and it is point two seven nine positive and it is also given the compound information since the negative value here is zero and here is positive so the compound information the compound sentiment is also positive here so it is analyse each and every information given in the excel file and it is return that whether it is negative neutral positive and also the compound sentiment that we can figure out from the from this information so i think now everything is clear to you guys now i will revise the each step here also so first of all what do you need to do here is you need to import the libraries basically you need to import three libraries here you need to import pandas you need to import nltk and you also need to import vader here so i have imported these three libraries then i have downloaded the vader underscore lexicon you also need to download that and then i need to load the file here since i have already explained you need to provide proper path to your file you can store your file anywhere in your system then i read from the excel file after reading from the excel file i will pass the excel file to data frames yes data frames is the facility that has been provided to us by the pandas library, data frames are basically two dimensional structure in that form of a table it makes the analysis easy and then i have removed the blank rows that at present in my excel file so this is how you do it after that i have print i have printed my data frames that each and every data frame is printed here after that i have initialised my sentiment intensity analyzer and then i have explained you guys that i have in my excel file i have also the time information the time at which my post was posted on my timeline so i need not analyze this information this has no relevance so whenever my program encounters this particular str that is the time information and then it skips that particular statement and goes to the next statement so for that i have taken a variable a here whenever in my data str1 is found and if str1 is found it needs to skip that for example that means if its values is minus one it hasn't found that str1 yes i repeat if its value is minus one it hasn't found that str one so now i need to analyze that particular statement if A value is minus one that means it hasn't found that particular statement that particular time information so i will just analyze that statement for that i need to write sid dot polarity underscore scores and in bracket you need to supply data then i have printed that data and then for k and ss i have printed the particular k, k will denote here whether it is negative neutral or positive and ss k will tell you the intensity of the particular sentiments k here is the sentiment ss of k here is the intensity of the sentiment i hope that this programming screen cast was useful to you guys and you have understood it well and if you have any doubts please post on the discussion form we are there to help you. Thank you, thank you so much.