

TEXT ANALYTICS

Group Assignment

Group 6

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REPORT

Q0.ipynb:

(Question 1)

In this code, we iterate through each line of the file using a for loop and parse the JSON string using `json.loads()`. We then create a dictionary `review` to store the values of "reviewText" and "overall" fields from each line. The `get()` method is used to handle cases where the fields may be missing in some lines. After extracting all the reviews, we create a DataFrame `df` using the `pd.DataFrame()` constructor, which converts the list of dictionaries into a tabular format.

Output:

```

              reviewText  overall
0  They look good and stick good! I just don't li...    4.0
1  These stickers work like the review says they ...    5.0
2  These are awesome and make my phone look so st...    5.0
3  Item arrived in great time and was in perfect ...    4.0
4  awesome! stays on, and looks great. can be use...    5.0
...
49995 I was sceptical about these batteries because ...    5.0
49996 These batteries have been great replacements i...    5.0
49997 It works. The thunderbolt eats battery life li...    4.0
49998 These batteries have held up for over a year n...    4.0
49999 I've had my HTC Thunderbolt for almost 2 years...    5.0

```

[50000 rows x 2 columns]

Q1.ipynb:

(Question 2)

We follow these pre-processing steps on the first 10,000 review texts:

1. Lowercasing: Each review text is converted to lowercase using Spacy's NLP pipeline.
2. Removing Punctuation: Punctuation marks are removed from each review text using Spacy's NLP pipeline and a custom function.

After pre-processing, the code computes the Inverse Document Frequency (IDF) of each word in the pre-processed review texts. The IDF is a measure of how important a word is in a collection of documents. The IDF

score is calculated based on the formula $IDF = \log(N / df)$, where N is the total number of documents and df is the document frequency of the word.

The code then reports the top 20 words and their IDF scores, as well as the bottom 20 words and their IDF scores. The top words have the highest IDF scores, indicating that they are less common but more important in the collection of reviews, while the bottom words have the lowest IDF scores, suggesting that they are more common and less informative.

Output:

For Top 20 Words

```
javoedge: 9.210340371976184
version:-----if: 9.210340371976184
betterspend: 9.210340371976184
jostled: 9.210340371976184
3gone: 9.210340371976184
clocked: 9.210340371976184
commensurate: 9.210340371976184
phone.)all: 9.210340371976184
forthcoming: 9.210340371976184
twp: 9.210340371976184
dissemble: 9.210340371976184
crackled: 9.210340371976184
is.-: 9.210340371976184
yorkcity: 9.210340371976184
removability: 9.210340371976184
evaluating: 9.210340371976184
disgust: 9.210340371976184
iwill: 9.210340371976184
perfectly3: 9.210340371976184
icarpus: 9.210340371976184
```

For Bottom 20 Words

```
the: 0.1694843079924628
i: 0.22652425947368723
and: 0.23294139379432077
it: 0.2410529718577776
a: 0.29988961555952587
to: 0.33128570993391293
this: 0.40137349020491087
is: 0.4714446670421397
for: 0.5013704649952355
my: 0.5480084148937067
of: 0.6717771548237528
in: 0.7172349760890353
with: 0.7298111649315369
that: 0.7410777143174954
but: 0.7914217498282858
on: 0.8047493571412477
have: 0.8340197394413609
not: 0.8528465593176202
phone: 0.9213032736976995
you: 0.9926319651308776
```

Q2.ipynb:

(Question 3)

We have defined a function called "sentence_detection" that takes a row from the subset DataFrame as input. Inside the function, the reviewer ID and review text are extracted from the row. The review text is processed using Spacy's NLP pipeline, and the sentences in the review are extracted as a list of strings. A new DataFrame

is created from the sentences, with columns for reviewer ID and review text. The function returns this DataFrame.

The code uses a list comprehension and the "sentence_detection" function to process each row of the subset DataFrame and concatenate the resulting sentence DataFrames into a single DataFrame called "df_final." The concatenated DataFrame is printed to display the sentences extracted from the reviews.

Finally, the code selects the review text of the last row in the subset DataFrame using iloc indexing and prints it. It then filters the "df_final" DataFrame to show only the sentences from the reviewer with the same ID as the last row in the subset DataFrame.

The output will include the printed contents of the original DataFrame, the printed subset DataFrame, the printed "df_final" DataFrame with extracted sentences, the review text from the last row of the subset DataFrame, and the filtered sentences from the reviewer with the same ID.

Source:

'This is a fantastic case. Very stylish and protects my phone. Easy access to all buttons and features, without any loss of phone reception. But most importantly, it double power, just as promised. Great buy'

Output:

	reviewerID	reviewText
36	A8AJS1DW7L3JJ	This is a fantastic case.
37	A8AJS1DW7L3JJ	Very stylish and protects my phone.
38	A8AJS1DW7L3JJ	Easy access to all buttons and features, witho...
39	A8AJS1DW7L3JJ	But most importantly, it double power, just as...
40	A8AJS1DW7L3JJ	Great buy

Q3.ipynb:

(Question 4)

Our code selects the first 10 rows of the DataFrame as a subset and assigns it to the variable "df_subset." The subset DataFrame is printed to show its contents. The code then loads the Spacy English language model.

A function called "tokenization" is defined, which takes a row from the subset DataFrame as input. Inside the function, the review text and reviewer ID are extracted from the row. The review text is processed using Spacy's NLP pipeline. For each token in the review, its text, lemma, and part-of-speech (POS) tag are extracted and stored in separate lists. A new DataFrame is created from these lists, including columns for reviewer ID, token, lemma, and POS tag. The function returns this DataFrame.

The code uses a list comprehension and the "tokenization" function to process each row of the subset DataFrame and concatenate the resulting tokenization DataFrames into a single DataFrame called "df_token." The concatenated DataFrame is printed to display the tokenized words, lemmas, and POS tags for each review.

Finally, the code selects the review text from the last row of the subset DataFrame using iloc indexing and prints it. It then filters the "df_token" DataFrame to show only the tokenization results for the reviewer with the same ID as the last row in the subset DataFrame.

The output will include the printed contents of the original DataFrame, the printed subset DataFrame, the printed "df_token" DataFrame with tokenization results, the review text from the last row of the subset DataFrame, and the filtered tokenization results for the reviewer with the same ID.

Output:

	reviewerID	token	lemma	pos
0	A30TL5EWN6DFXT	They	they	PRON
1	A30TL5EWN6DFXT	look	look	VERB
2	A30TL5EWN6DFXT	good	good	ADJ
3	A30TL5EWN6DFXT	and	and	CCONJ
4	A30TL5EWN6DFXT	stick	stick	VERB
..
373	A8AJS1DW7L3JJ	as	as	SCONJ
374	A8AJS1DW7L3JJ	promised	promise	VERB
375	A8AJS1DW7L3JJ	.	.	PUNCT
376	A8AJS1DW7L3JJ	Great	great	ADJ
377	A8AJS1DW7L3JJ	buy	buy	NOUN

We have retrieved the review text from the 10th row (index 9) of the `df_subset` DataFrame. It selects the 'reviewText' column and retrieves the value at the specified index. Then a filtering is done to obtain the tokenization results specifically for the same reviewer. The resulting DataFrame will contain the token, lemma, POS tag, and reviewer ID information associated with that reviewer.

Source:

'This is a fantastic case. Very stylish and protects my phone. Easy access to all buttons and features, without any loss of phone reception. But most importantly, it double power, just as promised. Great buy'

Output:

	reviewerID	token	lemma	pos
336	A8AJS1DW7L3JJ	This	this	PRON
337	A8AJS1DW7L3JJ	is	be	AUX
338	A8AJS1DW7L3JJ	a	a	DET
339	A8AJS1DW7L3JJ	fantastic	fantastic	ADJ
340	A8AJS1DW7L3JJ	case	case	NOUN
341	A8AJS1DW7L3JJ	.	.	PUNCT
342	A8AJS1DW7L3JJ	Very	very	ADV
343	A8AJS1DW7L3JJ	stylish	stylish	ADJ
344	A8AJS1DW7L3JJ	and	and	CCONJ
345	A8AJS1DW7L3JJ	protects	protect	VERB
346	A8AJS1DW7L3JJ	my	my	PRON
347	A8AJS1DW7L3JJ	phone	phone	NOUN
348	A8AJS1DW7L3JJ	.	.	PUNCT
349	A8AJS1DW7L3JJ	Easy	easy	ADJ
350	A8AJS1DW7L3JJ	access	access	NOUN
351	A8AJS1DW7L3JJ	to	to	ADP
352	A8AJS1DW7L3JJ	all	all	DET
353	A8AJS1DW7L3JJ	buttons	button	NOUN
354	A8AJS1DW7L3JJ	and	and	CCONJ
355	A8AJS1DW7L3JJ	features	feature	NOUN
356	A8AJS1DW7L3JJ	,	,	PUNCT

For example:

- Row 336, Reviewer ID: A8AJS1DW7L3JJ
Token: This
Lemma: this
POS: PRON (pronoun)
The reviewer used the word "This" in their review. After lemmatization, the word is converted to its base form "this". The part-of-speech tag indicates that it is a pronoun.

- Row 337, Reviewer ID: A8AJS1DW7L3JJ
 Token: is
 Lemma: be
 POS: AUX (auxiliary verb)
 The reviewer used the word "is" in their review. The lemma "be" represents the base form of the word. The POS tag indicates that it is an auxiliary verb.
- Row 338, Reviewer ID: A8AJS1DW7L3JJ
 Token: a
 Lemma: a
 POS: DET (determiner)
 The reviewer used the word "a" in their review. The lemma remains the same as the original word. The POS tag indicates that it is a determiner.

Q4.ipynb:

(Question 5)

- We have performed a five-class classification task using a Multinomial Naive Bayes model on a text dataset, an overview of the process is as follows"
- Data Loading: The code loads the dataset from the specified file path, which contains review texts and corresponding overall ratings.
- Train-Test Split: The dataset is split into a training set and a test set using the `train_test_split` function from scikit-learn. The training set will be used to train the model, while the test set will be used to evaluate its performance.
- TF-IDF Vectorization: The `TfidfVectorizer` class from scikit-learn is used to convert the text data into TF-IDF features. It transforms the review texts into a sparse matrix representation, where each row corresponds to a document and each column represents a unique term in the vocabulary.
- Model Training: A Multinomial Naive Bayes model is instantiated and trained using the TF-IDF features of the training set and their corresponding overall ratings.
- Test Set Prediction: The trained model is used to predict the overall ratings for the review texts in the test set.
- Evaluation: The accuracy of the model on the test set is evaluated by comparing the predicted ratings with the actual ratings. The `classification_report` function from scikit-learn is used to compute class-wise precision, recall, and F1 scores.

Classification Report

	precision	recall	f1-score	support
1.0	1.0000	0.0034	0.0068	882
2.0	0.0000	0.0000	0.0000	676
3.0	1.0000	0.0035	0.0069	1159
4.0	0.0000	0.0000	0.0000	2045
5.0	0.5243	0.9998	0.6879	5238
accuracy			0.5244	10000
macro avg	0.5049	0.2013	0.1403	10000
weighted avg	0.4787	0.5244	0.3617	10000

Comment on Accuracy:

The macro-average precision, recall, and F1-score across all classes are 0.5049, 0.2013, and 0.1403, respectively. The weighted average precision, recall, and F1-score are 0.4787, 0.5244, and 0.3617, respectively.

From the results, we can observe that the model performs well for class 5.0, achieving relatively high precision, recall, and F1-score. However, for other classes (1.0, 2.0, 3.0, and 4.0), the model's performance is poor, with

very low precision, recall, and F1-score. This indicates that the model struggles to accurately classify instances belonging to these classes.

Overall, the accuracy of 52.44% indicates that the multinomial Naïve Bayes model performed moderately well on the test set for this five-class classification problem. However, it's worth noting that the precision, recall, and F1-score vary significantly across different classes, with some classes having very low values (e.g., Class 2.0) and others having relatively higher values (e.g., Class 1.0 and Class 5.0). This suggests that the model struggles to accurately classify certain classes, leading to imbalanced performance across the different categories. Further analysis and potential improvements may be necessary to enhance the overall accuracy and class-wise metrics.

Q5.ipynb:

(Question 6)

We have used the Summa library to perform text summarization on these subsets. For the 1.0 rating reviews, the code summarizes them to approximately 1% of the original review text (in terms of words), while for the 5.0 rating reviews, the code limits the summary to around 300 words.

The code generates summaries using the `summarizer.summarize` function from Summa. It applies the summarization logic to each review individually and stores the results in separate data frames for the 1.0 rating reviews and 5.0 rating reviews.

The output includes the original review texts, as well as the corresponding summaries for both subsets. By summarizing the reviews, the code aims to provide condensed versions of the reviews that capture the main points or key information.

Output:

Summary of Reviews with Rating 1.0

it worked for the first week then it only charge my phone to 20%.

The Phone charger works, it charges the phone.

However, while the phone is charging it continually beeps as when the battery is too low. It will not stop beeping while it is charging until the battery reaches a certain percentage. I do not think this is the correct charger to be using on the phone I have. Now I am worried based on other reviewers that the battery may blow on the phone and I'll have to replace that too. I would not recommend buying this charger. The charger from my old blackberry works better.

This did not stop Amazon.com from selling me the phone, nor T-Mobile from transferring my existing (working) AT&T number to their service (of course, this took two weeks and > 10 phone calls). After receiving no reception, I called T-Mobile and was informed that they do not actually cover my area. I called AT&T back, and they happily attempted to restore my account, only to find that T-Mobile refused to release the numbers. After a month of essentially no coverage from anyone, my phones are happily back on AT&T where they belong. The bad news is that T-Mobile has sent me a bill for more than double the quoted monthly rate and Amazon.com has not refunded my purchase price. Even in areas where I could get coverage, the phone itself did not work well.

The problems we've had include: - random "white screen of death" - Bluetooth connectivity problems (isolated to phones) - dropped calls in perfect reception areas - random battery indications - the infamous "Unable to Charge" problem. Add to that Motorola's lousy phonebook and UI, and retarded Bluetooth handling (e.g., if any BT device is connected, the same Moto default ring sounds, regardless of sound profile or caller-specific ringtones), and you have an overpriced, overhyped, oversize paperweight. I'm fortunate Cingular offers my company's employees discounts on new phones, so that I can go back to Sony Ericsson.

I have a Treo 650, on Sprint PCS, with a firmware update of 1.08. For the most part, I actually like this headset because it is very comfy, and people seem to hear me well (the comfort is a big deal, as I often wear glasses) however, this headset takes a long time to connect with the T650 --- a good 7 to 10 seconds on most calls (and by then, most people have hung up) in addition, the volume is okay in the car (or other isolated places) but forget about using it outside or in noisier environments. I've heard that it works well with Moto products though ---- for Treo 650 users, I highly recommend the Scala 500, which has fast connection times and loud volume. Happy shopping!!! but no data, thick and stiff cable, you get what you pay for, keep looking for better cable reviews and pass on this. Crap do not buy will not work with any of the phones I have paid under four dollars.

(updated)+ Good battery life+ Very comfortable (choice of two ear bud tips, plus extras)+ Easy to use+ Minimal bling appeal (blue light is not obtrusive)- First unit failed (charger, headset buggy) after only 3 weeks use- Jabra Support is lackluster- Ugly shiny mic piece (photo on Amazon is not accurate, see customer images) After three weeks of use, it stopped charging from the AC adapter.

On the fourth try the green light disappeared and it wouldn't turn on. I bought this because I loved the Jabra 250 and I still use it, as a matter of fact. I was just really disappointed that something like this (for the price I paid for it) would just stop working for no good reason. I should've bought the Plantronics. Don't waste your money on this.

Like the previous Motorola phones that I've had, this one has the easy intuitive system for navigating its numerous menus --- I'm sold on using Motorola for this reason, compared to the Noxxx, Motorola is great! PROS: Almost everything Awesome design GSM I found the volume to be excellent compared to my last phone (Motorola V60). Good antenna, extremely low rate of dropped signals --- also, since the antenna does not protrude, I anticipate it will not require replacement (I had to replace the antenna twice on my old V60 --- broke off from carrying in pocket and/or dropping). Excellent color screen. Good camera for a phone. Great size, easily fits in a shirt pocket. Great battery life (with Bluetooth off). Easily customizable but items that I never use (media mall, media net, etc.) remain in a prominent place and can not be put in some obscure location. CONS: The most significant negative feature is the screen --- it is extremely hard to see in sunlight. Display on front (when closed) is hard to read. Price (if you are upgrading your phone with Cingular --- they wanted \$199) However, since I was changing from AT&T to Cingular I was able to buy the phone at BestBuy for \$70. The manual that comes with it should be better written. Screen gets oily from normal use and must be wiped off frequently. Alarm Clock interface could be better. Date Book Alert is not very loud. Accessory support at Cingular Stores rather poor --- two Cingular Stores did not have the USB cable (had to buy one at Wal-Mart). Of the four or five phones that I have owned, this one is by far the best in all respects.

The swivel to use the keypad is awful, no one can ever hear me when talking, (even when I use the Motorola H700 Bluetooth headset), photos taken on a regular megapixel camera phone are better than the 1.3 provided here, can't listen to MP3 thru bluetooth, photos stored on phone often become corrupted for no reason at all, all photos disappear occasionally and I have to turn phone off and back on, too bulky and heavy, battery at times drains after only an hour even without any use, reception very poor and often have to stand in wide open areas.

This phone is nice, dainty, and has a great display, but it ends there:*) The speaker isn't loud enough, so you're always pressing the phone to your ear so incredibly hard and still can't hear too well - I called T-Mobile, they acknowledged the problem and sent instructions to the phone to increase the speaker volume to no avail.*) The slider is hard to get to quickly - if you try sliding the phone open, many times you will actually reject a call.*) Using call waiting isn't too bad - when you go to call waiting it is easy, but retrieving a call is painful*) Text messages - this is the worst ever - first, slide the phone open, create a message, hit the enter key, then recent log, then select your recipients, then next then enter then the message sends.

ordered 2 of these a couple of weeks ago, got them in decent time put them in phone and charged them, neither battery lasted more than 48hrs MAX with less than 10 mins talk time. Sent email to company they were nice and sent 2 more batteries plus a return envelope to send first two back with, put in the next ones, charged and same thing within 48hrs both batteries dead with virtually zero talk time on them. Sending all 4 back. I'm guessing you basically get what you pay for.

this bluetooth headset is probably one of the worst you can ever waste money on. For some odd reason all of my Motorola bluetooth, including this one has really really bad static. I cannot clearly hear the other person and the other person cannot hear me. I would save my money and buy a different brand altogether. Motorola H700 Bluetooth Headset I saw the reviews for this headset on CNET, and I was pretty excited about getting it to use with my LG VX-9400 phone.

I'd like to say I was satisfied with this device, but I'm not, the ATT version for whatever reason was just SOOO much better than this phone on TracFone, and it was basically the same phone. Just a stupid phone!!! THE ATT VERSION IS GOOD, BUT THIS IS A NO GOOD PHONE!! Hello guys, up for reviews today is a phone I once used for TracFone the Motorola C139. 1st phone, it worked good, I was in the bathroom flushed the toilet and down went the phone, of course it was dead after this and it was gone to the sewer. 2nd phone.

got the screen to change colors and call different people from her contacts, tried drying and then it stopped even working as even a phone, it would go to the TracFone turn on screen reset itself and do it again until you did something like press a button it'd go off, or the battery would die. it still mysteriously charged, so it was used for a moto charger, or planned to if I found a phone with the same battery and then all now I get was a lit up keypad.

If your phone doesn't have such a connection, then you may want to look into a different phone because nothing without a direct connection is going to work, and you may want to look into a phone that gets better reception (there are some --- just read the 3rd party reviews). I wouldn't recommend this product to anyone unless you just have money to burn.

Product stopped working after only 4 months. Amazon referred me to Motorola for the 1 year manufacturer warranty. After calling Motorola 6 different times (of course an India call center) and even more emails (all not responded to) I was told that the product is out of stock and they tried to send me a wall charger as a replacement.

I found this headset very comfortable, with excellent audio quality, the few times it successfully connected to my Nokia phones. After working with BlueAnt tech support and trying it on two different phones, they admitted that they have a known issue with Symbian OS phones (most Nokia and some other smartphones) where the headset can be "paired" with the phone, but it does not connect reliably for incoming or outgoing calls.

In both cases, the red LED lit up, so it can't be a fuse issue, but neither phones indicated that it was receiving a charge when these chargers were connected. The third one does work, but only intermittently.

You could pull the cable out slightly and get both channels (sides), but if your gizmo (phone, tablet, mp3 player) moves the slightest then it stops working on both sides. The other bad thing is the static it creates when in use (aux or headphones). The item is junk and I would avoid unless you like throwing away money.

I really wanted this to work but it never charged my phone for more than 2 minutes.

The cord only worked for about a week before it randomly stopped being able to charge my phone lol don't waste ur money, it takes like a month for shipping I will never buy another cord from any of the sellers...they break or just don't work from the start.

Don't even work I hate this product it stop workin after 10mins ill never buy from this company again worst money spent its dont cost a lot for a good reason cause it beyond cheap Its hard to rate it because I have not got it yet and I do not know what the hangup is I payed my bill but no cable yet.

Then I stopped working and would not charge my phone.

it is work at the first 30 days,I brought two, one of it was broken, the line disconnect after 20daysthe other one works ok in the first couple times,after 30 days it still looks prefect, but suddenly when I plug into the pc, nothing shows up, and it became not working1 dollar for 20 days, it depends on how u thinkI will never buy it, cause it might not work suddenly when u really need to charge ur iphonethos was my previous reviewFvery nice price, works very well.I buy two more after I got it.

I actually cut off a small part of the broken band near where it snapped because I have a thin face and wanted a slightly tighter/snugger fit - and that's what I've got now.The headphones are still uncomfortable to wear for more than an hour or so as others have said as they dig into the ears, but I do like them for the gym and around the home as a bluetooth headset for voice calls with my phone.

Do your self a favor and skip it i honestly didnt notice that my phone was charging faster....seems to me like its jus a regular phone charger...says motorolla but i dont know, could be a fakey rip off...its workin just like a regular charger, not impressed This product did not work out of the box.

Don't waste your money on these because if they do work when u get them, they will quickly break and/or mess up your phone if u try to use it while it's plugged in.

(This can be deactivated but likes to come back on)It sucks.In case I wasn't clear, I would NOT recommend this product to anyone.I hope you find this review useful as I too read these reviews myself when I am about to purchase products, like the new Bluetooth headset I am going to buy now.

Whatever case you end up getting, get a high quality screen protector...As far as this case goes, I'm looking to replace it with something very lean so I can still put the phone in the DLO...as you can see, I like a few layers of protection for my beloved iphone!

If product worked as advertised, I should have been able to charge at least 2.3 times, assuming my Li-ion phone battery is at the poor end of the charging-efficiency spectrum.

Well at first it did work like for the 1st try then it got bad didn't work at all I bought for nothing don't even buy it...: We had ordered this for Our daughter for her phone.

Shame on you Amazon for not having a better quality controlover the products that you list or the vendors you do business with.If you want to waste your time and money buy this product.Thanks DEFECTUOSO DEFECTUOSO DEFECTUOSO DEFECTUOSO DEFECTUOSO DEFECTUOSO DEFECTUOSO DEFECTUOSO DEFECTUOSO DEFECTUOSO DEFECTUOSO DEFECTUOSO DEFECTUOSO DEFECTUOSO DEFECTUOSO DEFECTUOSO DEFECTUOSO DEFECTUOSO DEFECTUOSO

..... this is a great phone but as to this date the display blanked out and won't come back on as im in the caribbean a return is not an option so your product suck By pass this thing and get an iPhone!Freezes frequently and requires a reset.Little ball thingy you use to navigate is a joke.Small screen.Fails to connect to WiFi hotspots too many times.Teeny tiny keys.Update software from RIM is a farce.

I anxiously awaited this phone for a couple months, the day finally came and the phone arrived and what a disappointment it was!! spent about a week trying to "get used" to the feel of the phone, i really gave it every effort but the phone just didn't work the way it should have.

I know there have been software releases to make the phone work the way it was intended but I just didn't have the time to invest in it.I'll make this short and to the point, if you're a business/power email user then this phone will cramp your style, try it out for a week or two and you will see.

I wanted to be able to charge my phone and use my radar detector simultaneously, it worked great for almost a month and then all of the sudden it stopped.

With the phone in the case, the charge cord cannot be connected, or at least we can't get any of the multiple chargers we own to work (we own 11 iPhones).

It worked for a couple months then just up and stopped charging my phone.

It is a piece of junk I had I known it I would NOT had purchased!KarlaC Gave it to girlfriend to use on her blackberry phone, she said it got hot and it stopped working.

If you just need a headset (earpiece) for calls (no music) and can live without voice recognition, this can be a good buy.Update and why I changed this review from three to one star: Product was ok while it worked but item's internal battery stopped holding a charge after less than a year.

I ordered 4 cables and every serial numbers are the same.It's a really faked one and may break your phone.The pin is too tight and if you use this too long time, your phone's usb jack would not fit to any other genuine Samsung USB cable.Shame on Hongkong!!I'm going to claim now!Update5/4/12: Got an email from seller and they refunded full amount but I keep the one star review because of faked one (useless).

I got it to replace my charger cable but thos cable is a waste of money, in order to charge my phone it has to be at a certain angle, I tried it in my wife's phone and it has to be wiggle to find the right angle in witch it will charge the phone.

(And thus, if you plan to use your iPhone with all kinds of docks and docking accessories, this is not the case for you.)This thing is clearly intended for people in good coverage areas who use the iPhone mostly on the go, don't have a ready pile of iPhone accessories that require docking, and need a nice cover and a boost in operation time.The only reasons I give it four stars rather than five: I have no idea how long the battery's lifetime will be; a lot of lesser rechargeable batteries tend to wear out after 20-30 cycles, which I haven't yet gotten to on the Mophie, and also, the micro USB cable that comes with it is TOO DAMNED SHORT (like, a foot and a half, literally) and I had to buy a USB extension cable.

Irritating but not a dealbreaker.Reception - I haven't noticed the big drop in signal strength others have reported - might be a slight reduction but nothing that has given me any trouble (yet?)MicroUSB connector - people have complained that the connector breaks inside the phone after continued use - I haven't had any problems yet but I'm keeping an eye open for this.Price - it's pricy but if your iPhone is a primary tool for you then you'll appreciate the convenience and the investment will be worth it.Best illustrations of how it has saved me already -1) Business call that went much longer than planned, battery was down to 7% - flicked the charger switch mid-call and I was good to go for the rest of the call (and day).2) Writing this review in Starbucks - 20% battery warning just came up but I don't care - it's just time to get the Mophie going.Overall this has completely solved my battery anxiety and made my iPhone a

dependable device all day - highly recommended. I just confirmed that Blackberry Micro USB data cables work fine with the Mophie (they charge and sync) and can be purchased very cheaply from Amazon.

No wonder the price was so low, this battery pack is so bad that with the iPhone battery fully charged and this pack fully charged, I cannot get not even 5 hours of use out of the phone. I noticed it from the beginning I should have returned this item right away. The new trend I used to have outlast this one here by far I bought this originally for the outrageous price of \$90, but thought it would be worth it if it got me through a full day of heavy use on my iPhone.

It extends the life of my iPhone battery for an hour or two but doesn't charge the phone, and it doesn't seem to work if my phone battery drops too low.

Any latest phone? I understand that you don't expect them to do good as Bose in 30 bucks, but JWin comes in same price, but gives better quality. I think Motorola can never do good in this music earphones thing. With Sony phone (& sometime with iPhone too), the quality was too bad. Sound was like was being interrupted every few seconds. Come on, we are in 2010.

Output:

Summary of Reviews with Rating 5.0

Once we got the phones I called back to check and yes the person from Cingular had done everything as asked, I also checked from the phone itself as you can go to "My Account" from the Main Menu page and phone goes online and checks everything about your account, how many minutes, the plan, when the next bill is due, etc etc, and sure enough everything was as it was supposed to be. As far as signal strength it is excellent in my area, I can go all through our house upstairs and downstairs and it stays between 4-5 bars, I don't recall seeing less than 3 bars all around town so far, the phone gets a great signal, and Cingular "in my area" puts out a great signal. My wife just came back from a business trip, she was about 150 miles away "With NO ROAMING charges" btw our last cell phone service "Alltel" would have been roaming within 20 miles. Anyway when she got to the hotel she called we both had perfect signal strength, we both put phone in "Speaker Phone" mode and she just laid the phone in closed position on the night stand while she unpacked her suitcases, I put mine on my night stand and we talked for about an hour with no problems at all, and it was a FREE call "Mobile to Mobile". We sent a couple text messages to each other that worked no problem. She used the phone as her Alarm clock the next morning which worked perfectly. Now as for what 1-2 reviewers have said about the battery life, most likely they have gotten one of those 1-2 out of 1000. I've had phone 12 days have charged it 3 times and have never let it go to the point where it says it "needs" charging, so average 4 days per charge and just like the manual states it appears as though battery life is getting a bit better after a few charges, So I'm easily going to get 3-5 days per charge, and that's with a lot of fiddling around with it because it's new and 1-2 hours talk time. Some one mentioned they dropped the phone on its hinge and it broke.

We have also applied the same summarization logic to each review in a dataset, irrespective of the rating. We have defined a function named `sentence_detection` that applies summarization to each review in a dataset. The function takes a row of data as input, which includes the reviewer ID, overall rating, and review text. By tailoring the summarization approach based on the rating, the code attempts to capture the relevant information and sentiments specific to different types of reviews. This differentiation allows for a more nuanced summarization process, taking into account the sentiment and overall rating associated with each review.

Output:

Summary of Reviews with Rating 1.0

	reviewerID	reviewText	overall	summarizeText
0	A6FG04TBZ3QFZ	it worked for the first week then it only char...	1.0	
1	A2INSXDTE08WSJ	It worked great for the first couple of weeks ...	1.0	
2	ASRM2FSLDPXVX	Only works one side at a time. When you connec...	1.0	
3	A25TQLMIAP1T6	I bought 2 of this and tried to test first	1.0	
4	A17E8FKH09XAY2	This case for some reason is peeling, there is...	1.0	
...
995	ACICUJWBWZHCI	It is supposed to have an auto shut-off when t...	1.0	
996	A3PO95BBR2VPKL	The tool does the job but it is not the origin...	1.0	
997	A1BQ455YT6VVG	This pin is super fragile! Forget about it bei...	1.0	
998	A3GY1DJETWB36F	the iPhone pin I received was bent all up. When ...	1.0	
999	A3CJPPFXD9TK8D	The LG enV touch is an awful phone. The access...	1.0	

1000 rows × 4 columns

Output:

Summary of Reviews with Rating 5.0

	reviewerID	reviewText	overall	summarizeText
0	ASY55RVN10UD	These stickers work like the review says they ...	5.0	These stickers work like the review says they ...
1	A2TMXE2AFO7ONB	These are awesome and make my phone look so st...	5.0	These are awesome and make my phone look so st...
2	ATX7CZYFXI1KW	awesome! stays on, and looks great. can be use...	5.0	awesome!\nstays on, and looks great.\ncan be u...
3	A1JVYYO7G56DS	Came just as described.. It doesn't come unstu...	5.0	Came just as described..\nIt doesn't come unst...
4	A2JWEDW5FSVB0F	Good case, solid build. Protects phone all aro...	5.0	Good case, solid build.\nProtects phone all ar...
...
995	A2FQ08CLTFE4WW	Be careful, this is a high output charger, so ...	5.0	Be careful, this is a high output charger, so ...
996	A00MENP7IH8DB	It is worth to use it. However, I don't like m...	5.0	It is worth to use it.\nHowever, I don't like ...
997	A19A42UKTU2WWP	Good charger. Works well. Very helpful if yo...	5.0	Good charger.\nWorks well.\nVery helpful if yo...
998	A3NQV2QMAH1C0H	For the money spent on it, it is a very good d...	5.0	For the money spent on it, it is a very good d...
999	A3FS6OR1GLV7BU	Excelente... me gusto mucho el adaptador Nokia...	5.0	Excelente...\nme gusto mucho el adaptador Noki...

1000 rows × 4 columns