

In [36]: # Import Libraries

```
import requests
from bs4 import BeautifulSoup as bs
import pandas as pd
```

In [37]: # URL setup and HTML request

```
# Note - run Option 2 if you haven't setup Docker & Splash
headers = {'User-Agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/90.0.4430.93 Safari/537.36'}
```

In [38]: url='https://www.flipkart.com/samsung-galaxy-f13-waterfall-blue-64-gb/product-reviews/itm583ef432b2b0c?pid=MOBGENJWBPFYJSFT&lid=LSTMOBGENJWBPFYJSFTP8FGOC&marketplace=FLIPKART'

In [39]: url

Out[39]: 'https://www.flipkart.com/samsung-galaxy-f13-waterfall-blue-64-gb/product-reviews/itm583ef432b2b0c?pid=MOBGENJWBPFYJSFT&lid=LSTMOBGENJWBPFYJSFTP8FGOC&marketplace=FLIPKART'

In [40]: page = requests.get(url)

In [41]: page

Out[41]: <Response [200]>

In [42]: soup = bs(page.content, 'html.parser')

```
print(soup.prettify())
rawaoaoan01M1g11HntD5ZPSJ0aHRW018Va3a3LnczLm9yzy8yMDAwL3N2zyI+PGcgZmlsD0iIzIE
OUQ5RCIgZmlsbC1ydWx1PSJub256ZXJvIj48cGF0aCBkPSJNMjAgMEgyQzEgMCawIDEgMCaydjE0Y
zAgMS4xLjkMiAyIDJoMThjMSAwIDItMSAyLTJWmMwLTetMS0yLTItMnptMCaxNS45MmMtLjAylj
AzLS4wNi4wNi0uMDguMDhIMlYyLjA4TDiuMDggMmgxNy44M2MuMDMuMDiuMDYuMDguMDh2MTM
uODRIMjb6Ii8+PHBhdGggZD0iTTEwIDEyLjUxTDcuNSA5LjUgNCAXNGgxNGwtNC41LTZ6Ii8+PC9n
Pjwvc3ZnPg==);width:62px;height:62px">
    </div>
    <div class="_21YjFX _2A07HP" style="background-image:url(http
s://rukminim1.flixcart.com/blobio/124/124/imr/blobio-imr_6edab13a9d504cee8fd3
643753da47fb.jpg?q=90), url(
laWdodD0iMTgiIHhtbG5zPSJodHRwOi8vd3d3LnczLm9yZy8yMDAwL3N2ZyI+PGcgZmlsbD0iIzIE
OUQ5RCIgZmlsbC1ydWx1PSJub256ZXJvIj48cGF0aCBkPSJNMjAgMEgyQzEgMCawIDEgMCaydjE0Y
zAgMS4xLjkMiAyIDJoMThjMSAwIDItMSAyLTJWmMwLTetMS0yLTItMnptMCaxNS45MmMtLjAylj
AzLS4wNi4wNi0uMDguMDhIMlYyLjA4TDiuMDggMmgxNy44M2MuMDMuMDiuMDYuMDguMDh2MTM
uODRIMjb6Ii8+PHBhdGggZD0iTTEwIDEyLjUxTDcuNSA5LjUgNCAXNGgxNGwtNC41LTZ6Ii8+PC9n
Pjwvc3ZnPg==);width:62px;height:62px">
    </div>
    <div class="_21YjFX _2A07HP" style="background-image:url(http
s://rukminim1.flixcart.com/blobio/124/124/imr/blobio-imr_b27332a5c6a64248bde3
3c4c5934644a.jpg?q=90), url(
```

In [45]: names = soup.find_all('p', class_='_2sc7ZR _2V5EHH')

In [46]: names

```
Out[46]: [<p class=" _2sc7ZR _2V5EHH">charan raj</p>,
<p class=" _2sc7ZR _2V5EHH">Nilmoni Pal</p>,
<p class=" _2sc7ZR _2V5EHH">Jayanta Mahato</p>,
<p class=" _2sc7ZR _2V5EHH">Flipkart Customer</p>,
<p class=" _2sc7ZR _2V5EHH">Bollam Sai Bharath Patel</p>,
<p class=" _2sc7ZR _2V5EHH">Flipkart Customer</p>,
<p class=" _2sc7ZR _2V5EHH">Aloka Sahu</p>,
<p class=" _2sc7ZR _2V5EHH">Pinki Devi</p>,
<p class=" _2sc7ZR _2V5EHH">Amlendu Karn</p>,
<p class=" _2sc7ZR _2V5EHH">Dharambir Singh</p>]
```

In [47]: #Extracting customer names

```
cust_name = []
for i in range(0, len(names)):
    cust_name.append(names[i].get_text())
```

In [48]: def cus_data(soup):

```
# find the Html tag
# with find()
# and convert into string
data_str = ""
cus_list = []

for item in soup.find_all("p", class_=" _2sc7ZR _2V5EHH"):
    data_str = data_str + item.get_text()
    cus_list.append(data_str)
    data_str = ""
return cus_list

cus_res = cus_data(soup)
print(cus_res)
```

```
['charan raj', 'Nilmoni Pal', 'Jayanta Mahato', 'Flipkart Customer', 'Bollam
Sai Bharath Patel', 'Flipkart Customer', 'Aloka Sahu', 'Pinki Devi', 'Amlendu
Karn', 'Dharambir Singh']
```

In [49]: cust_name

```
Out[49]: ['charan raj',
'Nilmoni Pal',
'Jayanta Mahato',
'Flipkart Customer',
'Bollam Sai Bharath Patel',
'Flipkart Customer',
'Aloka Sahu',
'Pinki Devi',
'Amlendu Karn',
'Dharambir Singh']
```

```
In [52]: # Getting desired data from our parsed soup
reviews = soup.find_all('div', class_="row")
```

```
In [53]: reviews
```

```
p class="_2sc7ZR">>5 months ago</p></div><div class="_1e9_Zu"><div class="ro
w"><div class="_27aTsS"><div class="_1LmwT9"><svg class="skCrcq" height="15"
width="20" xmlns="http://www.w3.org/2000/svg"><path class="_1LIt4y" d="M9.58.
006c-.41.043-.794.32-1.01.728-.277.557-2.334 4.693-2.74 5.1-.41.407-.944.6-1.
544.6v8.572h7.5c.45 0 .835-.28 1.007-.665 0 0 2.207-6.234 2.207-6.834 0-.6-.4
7-1.072-1.07-1.072h-3.216c-.6 0-1.07-.535-1.07-1.07 0-.537.835-3.387 1.006-3.
944.17-.557-.107-1.157-.664-1.35-.15-.043-.257-.086-.407-.064zM0 6.434v8.572h
2.143V6.434H0z" fill="#fff" fill-rule="evenodd"></path></svg><span class="_
3c3Px5">1865</span></div><div class="_1LmwT9_pkR4jH"><svg class="skCrcq_pkR4jH"
height="15" width="20" xmlns="http://www.w3.org/2000/svg"><path class="_1LIt4
y" d="M9.58.006c-.41.043-.794.32-1.01.728-.277.557-2.334 4.693-2.74 5.1-.41.4
07-.944.6-1.544.6v8.572h7.5c.45 0 .835-.28 1.007-.665 0 0 2.207-6.234 2.207-
6.834 0-.6-.47-1.072-1.07-1.072h-3.216c-.6 0-1.07-.535-1.07-1.07 0-.537.835-
3.387 1.006-3.944.17-.557-.107-1.157-.664-1.35-.15-.043-.257-.086-.407-.064zM
0 6.434v8.572h2.143V6.434H0z" fill="#fff" fill-rule="evenodd"></path></svg><s
pan class="_
3c3Px5">297</span></div></div><div class="_2bmov8"><svg class="_
2UvOBb" height="11" viewBox="0 0 16 27" width="6" xmlns="http://www.w3.org/200
0/svg"><path class="_2aPE6f" d="M16 23.207L6.11 13.161 16 3.093 12.955 0 0 1
3.161l12.955 13.161z" fill="#fff"></path></svg><div class="_
3E8aIl _38dCuf"><
```

```
In [57]: #Extracting customer names
reviews1 = []
for i in range(0,len(reviews)):
    reviews1.append(reviews[i].get_text())
```

In [58]: reviews1

Out[58]:

```
['4.4★1,31,861 Ratings &7,609 Reviews5★4★3★2★1★86,11425,5019,3103,4967,440',  
 '4.4★',  
 '1,31,861 Ratings &',  
 '7,609 Reviews',  
 '4Good quality product',  
 "I like this product almost all aspects I'm giving my reviews after 7 day Expe  
 cially battery it amazing 50 to 20 % drop =6 hours Charging time 2 hour's 15 mi  
 nutes And also display good performance also OK daily usesCamera OKREAD MORE",  
 'charan rajCertified Buyer, Jogipet5 months ago1865297PermalinkReport Abuse',  
 'charan rajCertified Buyer, Jogipet5 months ago',  
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 'Truly speaking it is a budget smartphone at this price range. Camera quality  
 is pretty good . Performance in awesome, as well as the battery  life is mu  
 ch more satisfactory. Display quality is very good. Build quality also much attr  
 active. Thank you READ MORE',  
 'Nilmoni PalCertified Buyer, Bengaluru5 months ago1037163PermalinkReport Abus  
 e',  
 'Nilmoni PalCertified Buyer, Bengaluru5 months ago',  
 '1037163PermalinkReport Abuse',  
 '5Must buy!',  
 'I used to one week this phone battery backup super and camera so good so this  
 price. thank you Flipkart Samsung and seller.READ MORE',  
 'Jayanta MahatoCertified Buyer, Chennai4 months ago2385481PermalinkReport Abus  
 e',  
 'Jayanta MahatoCertified Buyer, Chennai4 months ago',  
 '2385481PermalinkReport Abuse',  
 '5Terrific',  
 'Mobile is fine and satisfied for all but i think also add screen gard ( Glass  
 ) and Back cover in box than is better for on this price . READ MORE',  
 'Flipkart CustomerCertified Buyer, Surat5 months ago2009445PermalinkReport Abu  
 se',  
 'Flipkart CustomerCertified Buyer, Surat5 months ago',  
 '2009445PermalinkReport Abuse',  
 '5Excellent',  
 "Good phone for the priceDisplay is averageCamera is good backFront average Ba  
 ttery okBack plastic frame average feelPerformance is good for the price Only b  
 uy this as a daily driver and don't expect heavy gaming overall a good phone fo  
 r good price. final verdict: good phone for its priceREAD MORE",  
 'Bollam Sai Bharath PatelCertified Buyer, Huzurabad6 months ago2435548Permalin  
 kReport Abuse',  
 'Bollam Sai Bharath PatelCertified Buyer, Huzurabad6 months ago',  
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 '5Excellent',  
 "Very fast delivery battery backup is good camera quality is also good and wit  
 hin this range we can't get much better than thisREAD MORE",  
 'Flipkart CustomerCertified Buyer, Guwahati5 months ago1119248PermalinkReport  
 Abuse',  
 'Flipkart CustomerCertified Buyer, Guwahati5 months ago',  
 '1119248PermalinkReport Abuse',  
 '3Fair',  
 "This mobile is purely for normal use, I don't recommend this for heavy users.  
 Camera is ok. The battery is really working good and long lasting. Samsung cou  
 d have given a better processor. I will recommend to choose other mobile in th  
 is price range according to processor. Otherwise everything is ok ok.READ MOR
```

E",
 'Aloka SahuCertified Buyer, Ganjam District8 months ago2183683PermalinkReport Abuse',
 'Aloka SahuCertified Buyer, Ganjam District8 months ago',
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 '5Must buy!',
 'Delivery person VIJAY KUMAR is very Nice his behaviour too Good. Given review after using the phone, super camera quality, very nice performance and design. Overall VERY NICE phone in this price segment. Go for it. Thank you Flipkart. 😊READ MORE',
 'Pinki DeviCertified Buyer, Patna5 months ago11432PermalinkReport Abuse',
 'Pinki DeviCertified Buyer, Patna5 months ago',
 '11432PermalinkReport Abuse',
 '4Nice product',
 'I am using this Phone since last 7 days , Feel like Very good Handset . In this price segment it is best .READ MORE',
 'Amlendu KarnCertified Buyer, Pune8 months ago811317PermalinkReport Abuse',
 'Amlendu KarnCertified Buyer, Pune8 months ago',
 '811317PermalinkReport Abuse',
 '4Value-for-money',
 "The 50 MP camera performs like a 48 MP camera bit it's still good. Battery performance is above the bar. Pretty decent phone. Loved it.READ MORE",
 'Dharambir SinghCertified Buyer, Jaipur5 months ago479184PermalinkReport Abuse',
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 '479184PermalinkReport Abuse',
 '',
 'ABOUTContact UsAbout UsCareersFlipkart StoriesPressFlipkart WholesaleCorporate InformationHELPPaymentsShippingCancellation & ReturnsFAQReport InfringementCONSUMER POLICYReturn PolicyTerms Of UseSecurityPrivacySitemapGrievance Redressal EPR ComplianceSOCIALFacebookTwitterYouTubeMail Us:Flipkart Internet Private Limited, \n Buildings Alyssa, Begonia & \n Clove Embassy Tech Village, \n Outer Ring Road, Devarabeesanahalli Village, \n Bengaluru, 560103, \n Karnataka, India \n Registered Office Address:Flipkart Internet Private Limited, \n Buildings Alyssa, Begonia & \n Clove Embassy Tech Village, \n Outer Ring Road, Devarabeesanahalli Village, \n Bengaluru, 560103, \n Karnataka, India \n CIN : U51109KA2012PTC066107 \n Telephone: 044-45614700\n']

In [54]: #Extracting Review title.
 title = soup.find_all('p', class_='_2-N8zT')

In [55]: title

Out[55]: [<p class=_2-N8zT>Good quality product</p>,<p class=_2-N8zT>Just wow!</p>,<p class=_2-N8zT>Must buy!</p>,<p class=_2-N8zT>Terrific</p>,<p class=_2-N8zT>Excellent</p>,<p class=_2-N8zT>Excellent</p>,<p class=_2-N8zT>Fair</p>,<p class=_2-N8zT>Must buy!</p>,<p class=_2-N8zT>Nice product</p>,<p class=_2-N8zT>Value-for-money</p>]

```
In [59]: #Extracting customer names
title1 = []
for i in range(0,len(title)):
    title1.append(title[i].get_text())
```

```
In [61]: title1
```

```
Out[61]: ['Good quality product',
'Just wow!',
'Must buy!',
'Terrific',
'Excellent',
'Excellent',
'Fair',
'Must buy!',
'Nice product',
'Value-for-money']
```

```
In [72]: #Extracting customer names
reviews1 = []
for i in range(0,len(reviews)):
    reviews1.append(reviews[i].get_text())
```

In [73]: reviews1

```
Out[73]: ['4.4★1,31,861 Ratings &7,609 Reviews5★4★3★2★1★86,11425,5019,3103,4967,440',
  '4.4★',
  '1,31,861 Ratings &',
  '7,609 Reviews',
  '4Good quality product',
  "I like this product almost all aspects I'm giving my reviews after 7 day Expe
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 '',
 'ABOUTContact UsAbout UsCareersFlipkart StoriesPressFlipkart WholesaleCorporate InformationHELPPaymentsShippingCancellation & ReturnsFAQReport InfringementCONSUMER POLICYReturn PolicyTerms Of UseSecurityPrivacySitemapGrievance Redressal EPR ComplianceSOCIALFacebookTwitterYouTubeMail Us:Flipkart Internet Private Limited, \n Buildings Alyssa, Begonia & \n Clove Embassy Tech Village, \n Outer Ring Road, Devarabeesanahalli Village, \n Bengaluru, 560103, \n Karnataka, India \n Registered Office Address:Flipkart Internet Private Limited, \n Buildings Alyssa, Begonia & \n Clove Embassy Tech Village, \n Outer Ring Road, Devarabeesanahalli Village, \n Bengaluru, 560103, \n Karnataka, India \n CIN : U51109KA2012PTC066107 \n Telephone: 044-45614700\n']

In [113]: data = []

In [114]: import pandas as pd
df = pd.DataFrame()

In [115]: df['cust_name']=cust_name
df['title']=title1

In [116]: rating = soup.find_all('div',class_='_3LWzlk _1BLPMq')

In [117]: rating

Out[117]: [<div class="3LWZ1K _1BLPMq">4</div>, <div class="3LWZ1K _1BLPMq">5</div>, <div class="3LWZ1K _1BLPMq">3</div>, <div class="3LWZ1K _1BLPMq">5</div>, <div class="3LWZ1K _1BLPMq">5</div>, <div class="3LWZ1K _1BLPMq">4</div>, <div class="3LWZ1K _1BLPMq">4</div>]

```
In [118]: #Extracting customer names
rating1 = []
for i in range(0,len(rating)):
    rating1.append(rating[i].get_text())
```

```
In [119]: rating1
```

```
Out[119]: ['4', '5', '5', '5', '5', '5', '3', '5', '4', '4']
```

```
In [120]: text = soup.find_all('div',class_='t-ZTKy')
```

In [121]: text

Out[121]: [<div class="t-ZTKy"><div><div class="">I like this product almost all aspects I'm giving my reviews after 7 day
Expecially battery it amazing 50 to 20 % drop =6 hours
Charging time 2 hour's 15 minutes
And also display good performance also OK daily uses
Camera OK</div>READ MORE</div></div>, <div class="t-ZTKy"><div><div class="">Truly speaking it is a budget smartphone at this price range.
Camera quality is pretty good . Performance in awesome, as well as the battery life is much more satisfactory. Display quality is very good.
Build quality also much attractive.

Thank you </div>READ MORE</div></div>, <div class="t-ZTKy"><div><div class="">I used to one week this phone battery backup super and camera so good so this price. thank you Flipkart Samsung and seller. READ MORE</div></div>, <div class="t-ZTKy"><div><div class="">Mobile is fine and satisfied for all but i think also add screen gard (Glass) and Back cover in box than is better for on this price . </div>READ MORE</div></div>, <div class="t-ZTKy"><div><div class="">Good phone for the price
Display is average
Camera is good back
Front average
Battery ok
Back plastic frame average feel
Performance is good for the price
Only buy this as a daily driver and don't expect heavy gaming overall a good phone for good price. final verdict: good phone for its price</div>READ MORE</div></div>, <div class="t-ZTKy"><div><div class="">Very fast delivery battery backup is good camera quality is also good and within this range we can't get much better than this</div>READ MORE</div></div>, <div class="t-ZTKy"><div><div class="">This mobile is purely for normal use, I don't recommend this for heavy users. Camera is ok. The battery is really working good and long lasting. Samsung could have given a better processor. I will recommend to choose other mobile in this price range according to processor. Otherwise everything is ok ok.</div>READ MORE</div></div>, <div class="t-ZTKy"><div><div class="">Delivery person VIJAY KUMAR is very Nice his behaviour too Good. Given review after using the phone, super camera quality, very nice performance and design. Overall VERY NICE phone in this price segment. Go for it. Thank you Flipkart. </div>READ MORE</div></div>, <div class="t-ZTKy"><div><div class="">I am using this Phone since last 7 days , Feel like Very good Handset . In this price segment it is best .</div>READ MORE</div></div>, <div class="t-ZTKy"><div><div class="">The 50 MP camera performs like a 48 MP camera bit it's still good. Battery performance is above the bar. Pretty decent phone. Loved it.</div>READ MORE</div></div>]

In [122]: #Extracting customer names

```
text1 = []
for i in range(0,len(text)):
    text1.append(text[i].get_text())
```

In [123]: text1

Out[123]: ["I like this product almost all aspects I'm giving my reviews after 7 day Expe cially battery it amazing 50 to 20 % drop =6 hours Charging time 2 hour's 15 mi nutes And also display good performance also OK daily usesCamera OKREAD MORE",
 'Truly speaking it is a budget smartphone at this price range. Camera quality is pretty good . Performance in awesome, as well as the battery life is mu ch more satisfactory. Display quality is very good. Build quality also much attr active. Thank you READ MORE',
 'I used to one week this phone battery backup super and camera so good so this price. thank you Flipkart Samsung and seller.READ MORE',
 'Mobile is fine and satisfied for all but i think also add screen gard (Glass) and Back cover in box than is better for on this price . READ MORE',
 "Good phone for the priceDisplay is averageCamera is good backFront average Ba ttery okBack plastic frame average feelPerformance is good for the price Only b uy this as a daily driver and don't expect heavy gaming overall a good phone fo r good price. final verdict: good phone for its priceREAD MORE",
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 "The 50 MP camera performs like a 48 MP camera bit it's still good. Battery pe rformance is above the bar. Pretty decent phone. Loved it.READ MORE"]

In [130]: date = soup.find_all('p', class_='_2sc7ZR ')

In [131]: date

```
Out[131]: [<p class=" _2sc7ZR _2V5EHH">charan raj</p>,
 <p class=" _2sc7ZR">5 months ago</p>,
 <p class=" _2sc7ZR _2V5EHH">Nilmoni Pal</p>,
 <p class=" _2sc7ZR">5 months ago</p>,
 <p class=" _2sc7ZR _2V5EHH">Jayanta Mahato</p>,
 <p class=" _2sc7ZR">4 months ago</p>,
 <p class=" _2sc7ZR _2V5EHH">Flipkart Customer</p>,
 <p class=" _2sc7ZR">5 months ago</p>,
 <p class=" _2sc7ZR _2V5EHH">Bollam Sai Bharath Patel</p>,
 <p class=" _2sc7ZR">6 months ago</p>,
 <p class=" _2sc7ZR _2V5EHH">Flipkart Customer</p>,
 <p class=" _2sc7ZR">5 months ago</p>,
 <p class=" _2sc7ZR _2V5EHH">Aloka Sahu</p>,
 <p class=" _2sc7ZR">8 months ago</p>,
 <p class=" _2sc7ZR _2V5EHH">Pinki Devi</p>,
 <p class=" _2sc7ZR">5 months ago</p>,
 <p class=" _2sc7ZR _2V5EHH">Amlendu Karn</p>,
 <p class=" _2sc7ZR">8 months ago</p>,
 <p class=" _2sc7ZR _2V5EHH">Dharambir Singh</p>,
 <p class=" _2sc7ZR">5 months ago</p>]
```

In [132]: #Extracting customer names

```
date1 = []
for i in range(0,len(date)):
    date1.append(date[i].get_text())
```

In [133]: date1

```
Out[133]: ['charan raj',
 '5 months ago',
 'Nilmoni Pal',
 '5 months ago',
 'Jayanta Mahato',
 '4 months ago',
 'Flipkart Customer',
 '5 months ago',
 'Bollam Sai Bharath Patel',
 '6 months ago',
 'Flipkart Customer',
 '5 months ago',
 'Aloka Sahu',
 '8 months ago',
 'Pinki Devi',
 '5 months ago',
 'Amlendu Karn',
 '8 months ago',
 'Dharambir Singh',
 '5 months ago']
```

In [137]: date2=[]

```
for i in range(1,20,2):
    date2.append(date[i].get_text())
```

In [138]: date2

```
Out[138]: ['5 months ago',
 '5 months ago',
 '4 months ago',
 '5 months ago',
 '6 months ago',
 '5 months ago',
 '8 months ago',
 '5 months ago',
 '8 months ago',
 '5 months ago']
```

In [139]:

```
df['cust_name']=cust_name
df['title']=title1
df['rating']=rating1
df['comments']=text1
df['date']=date2
```

In [140]: df

Out[140]:

	cust_name	title	rating	comments	date
0	charan raj	Good quality product	4	I like this product almost all aspects I'm giv...	5 months ago
1	Nilmoni Pal	Just wow!	5	Truly speaking it is a budget smartphone at th...	5 months ago
2	Jayanta Mahato	Must buy!	5	I used to one week this phone battery backup s...	4 months ago
3	Flipkart Customer	Terrific	5	Mobile is fine and satisfied for all but i thi...	5 months ago
4	Bollam Sai Bharath Patel	Excellent	5	Good phone for the priceDisplay is averageCame...	6 months ago
5	Flipkart Customer	Excellent	5	Very fast delivery battery backup is good came...	5 months ago
6	Aloka Sahu	Fair	3	This mobile is purely for normal use, I don't ...	8 months ago
7	Pinki Devi	Must buy!	5	Delivery person VIJAY KUMAR is very Nice his b...	5 months ago
8	Amlendu Karn	Nice product	4	I am using this Phone since last 7 days , Feel...	8 months ago
9	Dharambir Singh	Value-for-money	4	The 50 MP camera performs like a 48 MP camera ...	5 months ago

In [142]: # Save results to a dataframe, then export as CSV
df.to_csv('samsung.csv', index=False)

In []: