

BHARATHKUMAR S

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Projects

**I want my work to
make a difference**



- Flipcart Data extraction
- The Retail guru
- Mix and Match
- Sentiment Analysis
- Network blog Web application
- CHATBOT-Deep learning
(Under Development)

PORTFOLIO



BHARATHKUMAR SIVAKUMAR

Python | Machine Learning | Cloud

I Want My Work To Make a Difference

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WORK EXPERIENCE

SOFTWARE ENGINEER NAMASTE CREDIT

02/2019 – Present

Bangalore, India

Fintech company

Daily routine/Tasks

- Data analysis of structured and unstructured data using Pandas, Scikit-learn, NumPy and NLTK for Bank statements and Financial Statements.
- Creation and implementation of 'API' for Internal and External Purposes | Neo Banking Android App API | Tools - | Python FLASK AND DJANGO|
- Design a Highly Optimized Machine Learning Algorithm for Financial without using any of the ML based Software libraries
- Design the Configuration of Nginx Server on AWS Server Instance and Docker Container.
- Connecting key factor as MySQL and Dynamodb for data
- Webscraping with selenium

PYTHON DATA ANALYST | CLOUD FREELANCER

09/2018 – 11/2018

Chennai/Bangalore, India

The Retail Guru-Retail analysis | Gaming Data -storage

Achievements/Tasks

- Implementation of Retail Analysis using Python Pandas module
- The Problem statement deals with the data of Super market and Customers bills.
- Analysis is based on the customer billing and products.
- Implementation of Storing live gaming data into MongoDB
- Implementation of Storing 3d and 2d gaming models into Aws S3 bucket

TRAINEE PYTHON DJANGO DEVELOPER PEOPLE-CLICK TECHNO SOLUTIONS

12/2017 – 06/2018

Bangalore, India

Achievements/Tasks

- Utilized Python, Django to design server applications and client interfaces
- Handled development and management of front-end user interfaces with the help of Html, Css and Bootstrap templates

SKILLS

PYTHON

AWS-S3

AWS-DYNAMODB

AWS-INSTANCE

AWS-SERVERLESS | LAMBDA |

DOCKER CONTAINER

MYSQL

PANDAS

NUMPY

DJANGO

FLASK

ML-ALGORITHMS

PERSONAL PROJECTS

NAMED ENTITY RECOGNITION [Deep Learning]

- Creation of Custom Named Entity Recognition Model based on Convolution Neural Network and Bidirectional Lstm
- The Entities such as PERSON | LOCATION | DATE | BANK NAMES
- ACCURACY : 30%/100%

PATTERN MATCHING ALGORITHM

- Designing a Pattern for getting desired data from the unstructured data in a text or csv file
- Structuring the data, Finding Pattern and Less data loss
- ACCURACY : 70%/100%

FINANCIAL ANALYSIS ALGORITHM

- Designing a algorithm for getting data from scanned document of Financial Balance sheet and Profit & loss
- The Algorithm Segregate the data based on the format of the sheets.
- The core Mechanism of the algorithm is based on Regular Expression, Pandas Random Forest, Functional, conditional and Data structures.

ACHIEVEMENTS

CFI FINANCIALS MACHINE LEARNING (12/2019 – Present)

Corporate Finance Institute® (CFI)

Big Data-Hadoop (09/2017 – 11/2017)

Focus'd IT Academy

LANGUAGES

ENGLISH

Full Professional Proficiency

TAMIL

Native or Bilingual Proficiency

INTERESTS

TEACHING-TECHNOLOGY

PUBLIC SPEAKING

PROGRAMMING



**BHARATHKUMAR
SIVAKUMAR**
ITSMESBK

I Want My Work To Make A
Difference

Edit bio

Bangalore

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SENTIMENT-ANAYSIS-DEMOTIZATION-PIG-USECASE

Hadoop(pig)

Mix-Match

#Coding challenge

FLIPCARD-DATA-EXTRACTION

Web scrapping

chatbot

Simple conversation_one &one

RETAIL_GURU

Retail analysis

Network-Webapp

Django_web_blog

23 contributions in the last year

Contribution settings



GITHUB-REPOSITORIES

chatbot

Simple conversation_one &one

Updated 3 minutes ago

Network-Webapp

Django_web_blog

Updated 6 minutes ago

FLIPCARD-DATA-EXTRACTION

Web scrapping

Updated 9 minutes ago

RETAIL_GURU

Retail analysis

Updated 12 minutes ago

Mix-Match

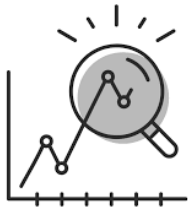
#Coding challenge

Updated 13 minutes ago

SENTIMENT-ANAYSIS-DEMOTIZATION-PIG-USECASE

Hadoop(pig)

Updated 22 minutes ago



CONTRIBUTION: MASTERCODE



- INPUTS PROVIDED (Attached zip has the following datasets):
 - **Articles - Master of items with name and item code for each stores**
 - **Stores - Store identifier and name**
 - **Article Hierarchy – Categorization**
 - **Customers - Customer name, telephone number by store**
 - **Bills - 3 months' bills by store**
- PROGRAMMING LANGUAGE USED:
 - **Python**
- CORE MECHANISM USED IN CODE:
 - **Pandas**
- PLATFORM USED FOR CODE:
 - **Windows (Platform Independent)**
 - **Jupyter notebook**
- CODE DESCRIPTION:
 - **In the "Retail guru" problem statement, I used Pandas module for analyzing and processing the data.**
 - **From the pandas module the dataset should be concatenated, sorted and merged as per flow of the program.**
 - **As per the problem statement. I find out the monthly one time large baskets.**
 - **And my results should be separate csv files for each month, so Totally 3 months**
 - **The output of the Problem statement should be the maximum amount of product that people bought in every month.**

PROBLEM STATEMENT OUTPUT:

1.Sorted:

customer	store_id	sale_date	quantity	bill_no	article_ba	selling_pr	tax	discount	cost_price	article_id	Count	current_s	cost_price	name
381	4	01-06-18	1	628671	J13353-94	4.165	0.52	0	3.111	13353	1	4.9	3.913361	jolly rancher green apple lollipops rs.5
381	4	01-06-18	1	628671	K6054-427	4.1225	0.52	0	3.23323	6054	1	4.9	4.218608	kurkure puffcorn yummy cheese rs.5
381	4	02-06-18	2	629316	K23264-73	21.25	3.81	0	17.53584	23264	1	25	20.60603	kwaliti walls mango zap 57g
381	4	02-06-18	3	629315	K23264-73	21.25	3.8133	0	17.53584	23264	1	25	20.60603	kwaliti walls mango zap 57g
381	4	03-05-18	1	614764	M7066-16	51.9435	6.54	0	37.485	7066	1	65	44.91436	mambalam iyers tomato thokku 200g
381	4	03-05-18	1	615017	V16796-19	32.725	4.12	0	23.8	16796	1	38.4	28.0299	venkateswara potato chips 100gm
381	4	03-05-18	1	615020	M7095-74	51.9435	6.54	0	35.58525	7095	1	64.99	44.105	mambalam iyers gongura leaf rice mix 200g
381	4	03-06-18	1	629940	A17032-38	24.99	3.16	0	19.8696	17032	1	29.4	27.79951	act ii classic salted 90g
381	4	03-06-18	1	629940	A8086-865	24.99	3.16	0	19.86943	8086	1	29.4	26.96185	act ii southern spice 70g
381	4	03-06-18	1	629940	A9274-241	24.99	3.16	0	20.6975	9274	1	29.4	27.43814	act ii tandoori tadka 70g
381	4	03-06-18	1	629940	A9278-870	24.99	3.16	0	19.86986	9278	1	29.4	27.71516	act ii butter delite 70g
381	4	03-06-18	1	629940	B11083-61	11.475	0.64	0	7.8931	11083	1	13.5	9.673471	barley rice 250g
381	4	03-06-18	1	629940	B218-5132	56.066	3.14	0	49.589	218	1	66	57.6451	bru green label roast & ground coffee 200g
381	4	03-06-18	1	629940	G6361-545	212.415	38.12	0	162.843	6361	1	249.9	195.2029	godrej hit kills hidden cockroaches 625ml
381	4	03-06-18	1	629940	P23301-10	7.429	0.42	0	4.121055	23301	1	8.2	5.232453	pattai 20gm
381	4	03-06-18	1	629940	P4553-381	14.6625	0	0	10.625	4553	1	17.25	12.95011	pori 250gm
381	4	03-06-18	1	630217	R20497-53	81.6255	14.64	0	60.77075	20497	1	96.1	77.92717	rexona underarm odour protection powder dry roll on 500g
381	4	04-06-18	1	630519	P10491-68	16.15	0	0	15.8525	10491	1	19	18.33682	ponlait milk 500ml (green)
381	4	04-06-18	1	630519	S4780-557	140.25	7.86	0	117.7293	4780	1	197.4	165.0024	sugar 5kg
381	4	05-04-18	1	601684	K23264-34	21.25	3.82	0	17.53584	23264	1	25	20.60603	kwaliti walls mango zap 57g
381	4	05-05-18	1	615955	B218-9652	56.066	3.14	0	49.589	218	1	66	57.6451	bru green label roast & ground coffee 200g
381	4	05-05-18	1	615955	B11080-32	4.9215	0	0	2.55	11080	1	5	2.476512	black salt b 100g

2. 04TH MONTH LARGE BASKET:

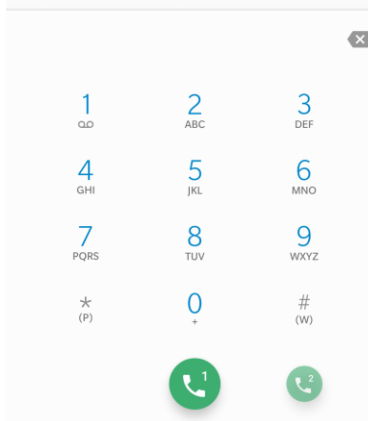
sale_date	customer	store_id	quantity	bill_no	article_ba	selling_pr	tax	discount	cost_price	article_id	Count	current_selling	name	count
06-04-18	381	4	1	630519	P10491-68	16.15	0	0	15.8525	10491	1	19	ponlait milk 500ml (green)	2
06-04-18	381	4	1	630519	S4780-557	140.25	7.86	0	117.7293	4780	1	197.4	sugar 5kg	2
20-04-18	381	4	1	608833	K17892-73	80.75	14.5	0	66.623	17892	1	95	kwaliti walls creamy delight vanilla 700ml	2
24-04-18	381	4	1	610432	V16796-63	32.725	4.12	0	23.8	16796	1	38.4	venkateswara potato chips 100gm	2
05-04-18	383	4	1	615189	S14598-16	28.9	0	0	25.2875	14598	1	34	spencers special long loaf bread 500g	2
13-04-18	383	4	2	605207	B1994-709	15.3	2.75	0	10.34416	1994	1	18	britannia treat jim jam creme biscuits rs.20	2
13-04-18	383	4	1	605263	C1846-195	8.245	1.04	0	6.61793	1846	1	9.7	cheetos cheese balls rs.10	2
18-04-18	383	4	2	607589	B14530-93	11.475	2.06	0	7.6228	14530	1	14.4	britannia marie gold biscuits rs.15	2
18-04-18	383	4	1	607589	B1979-851	24.48	4.4	0	19.397	1979	1	28.8	britannia treat jim jam creme biscuits rs.25	2
19-04-18	383	4	1	608519	M793-508	19.788	2.5	0	16.54372	793	2	23.28	maggi cheese macaroni paztta 70g	2
19-04-18	383	4	1	608519	P17085-48	11.815	1.48	0	6.375	17085	1	13.9	pasta elbow 200g	2
19-04-18	383	4	1	608146	C8333-664	8.245	1.48	0	6.545	8333	1	9.7	colgate strong teeth toothpaste 23g rs.10	2
19-04-18	383	4	1	608519	P19396-93	20.6125	3.7	0	15.59954	19396	1	24.3	parle hide&seek choco rolls biscuits 75g	2
19-04-18	383	4	1	608146	C449-6611	51.119	9.18	0	38.4285	449	1	60.2	colgate strong teeth toothpaste 150g	2
21-04-18	383	4	2	609014	P149-914	24.735	4.44	0	18.71862	149	1	29.1	parle hide&seek chocolate chip cookies 120g	2
21-04-18	383	4	2	609362	R18248-48	8.075	1.45	0	5.7715	18248	1	9.7	richeese nabati cheese wafer rs.10	2
21-04-18	383	4	1	609082	M783-102	70.907	8.94	0	59.28393	783	2	83.5	maggi masala noodles 560g	2
23-04-18	383	4	1	609965	I1990-922	314.5	39.64	0	251.3705	1990	1	419.1	indulekha bringha oil 100ml	2
25-04-18	383	4	1	611011	V25271-16	69.258	8.72	0	51	25271	2	75.6	veeba eggless mayonnaise 275g	2
27-04-18	383	4	1	611908	P6478-345	14.0165	2.52	0	8.7465	6478	1	16.5	pepsodent triple clean medium tb	2
16-04-18	388	4	1	606812	B20994-54	12.24	2.2	0	9.70275	20994	1	14.4	britannia milk bikis biscuits rs.15	2
16-04-18	388	4	1	606812	B2013-527	32.64	5.86	0	25.874	2013	1	38.4	britannia milk bikis milky sandwich rs.40	2

3. 05TH MONTH LARGE BASKET:

sale_date	customer	store_id	quantity	bill_no	article_ba	selling_pr	tax	discount	cost_price	article_id	Count	current_s	name	count
05-05-18	381	4	1	615955	B404-2940	8.16	1.46	0	6.463145	404	1	9.6	britannia 50-50 maska chaska biscuits rs.10	3
15-05-18	382	4	2	620830	R9959-553	81.6255	14.65	0	57.62754	9959	1	96.1	red bull energgy drink 250ml	1
25-05-18	382	4	1	625508	E23292-64	31.1355	1.74	0	23.039	23292	1	34.88	elaichi 20gm	1
25-05-18	382	4	1	625508	A4178-626	31.365	0	0	22.1	4178	1	39.78	atta 1kg	1
25-05-18	382	4	5	625508	B2001-118	4.08	0.732	0	3.172795	2001	1	4.8	britannia marie gold biscuits rs.5	1
25-05-18	382	4	5	625508	B406-1948	4.08	0.732	0	3.23153	406	1	4.8	britannia milk bikis biscuits rs.5	1
25-05-18	382	4	4	625508	S1695-649	99.0675	5.55	0	89.8535	1695	1	115.5	svs refined ground oil 1l	1
25-05-18	382	4	3	625508	S4778-638	30.1495	1.6867	0	23.54092	4778	1	39.88	sugar 1kg	1
25-05-18	382	4	1	625508	C3994-222	215.764	12.08	0	174.25	3994	1	253.84	cashew 320 250g	1
25-05-18	382	4	1	625508	C467-1675	16.15	2.9	0	10.18691	467	1	19	colgate kids 2+ gentle soft tb	1
25-05-18	382	4	1	625508	D10273-54	9.945	0.56	0	7.769	10273	1	11.7	dalda vanaspati 100ml rs.13	1
25-05-18	382	4	1	625508	M10853-6	13.804	0	0	10.5995	10853	1	16.6	maida 500g	1
25-05-18	382	4	1	625577	C5102-606	222.615	39.96	0	176.8085	5102	1	261.9	clear complete active care shampoo 375ml	1
25-05-18	382	4	1	625577	I1990-857	356.184	44.9	0	251.3583	1990	1	419.1	indulekha bringha oil 100ml	1
25-05-18	382	4	6	625508	S308-7234	9.792	1.7567	0	7.64082	308	1	11.6	sabena 450g	1
29-05-18	382	4	1	627364	M22979-9	24.99	1.4	0	21.012	22979	1	29.4	milky mist stirred fruit yoghurt blueberry 100g	1
29-05-18	382	4	1	627364	N5034-338	147.5855	26.48	0	118.2945	5034	1	173.7	nestle cerelac wheat apple stage 1 300g	1
29-05-18	382	4	1	627364	C25047-62	79.9425	14.34	0	48.63913	25047	1	94.1	colgate sensitive toothbrush 4pcs	1
29-05-18	382	4	1	627364	C455-6615	65.1355	11.68	0	48.96213	455	1	76.7	colgate spider-man toothpaste 80g	1
29-05-18	382	4	1	627364	G1118-864	28.8575	5.18	0	19.0825	1118	1	34	glucon-d nimbu pani flavour 100g	1
29-05-18	382	4	1	627364	M10080-2	93.296	11.76	0	79.815	10080	2	109.8	milky mist cheese cubes 10 cubes 200g	1
29-05-18	382	4	1	627364	M18145-6	11.662	0	0	10.03	18145	1	11.8	milky mist curd 100g	1

4. 06TH MONTH LARGE BASKET:

sale_date	customer	store_id	quantity	bill_no	article_ba	selling_pr	tax	discount	cost_price	article_id	current_s	name	count
22-06-18	381	4	1	639225	A4542-287	30.005	0	0	20.5105	4542	35.3	aval lays 500gm	2
21-06-18	382	4	1	639103	M999-688	48.96	8.78	0	38.0205	999	57.6	mysore sandal soap 125g	2
21-06-18	382	4	1	639103	J4735-295	44.0385	0	0	35.9805	4735	54.3	jaggery white 1kg	2
21-06-18	382	4	1	639103	V4080-362	21.0885	1.18	0	13.7105	4080	24.81	vellari vithai 50gm	2
15-06-18	383	4	1	635815	M10495-6	29.75	0	0	27.625	10495	35	modern special bread family pack 600g	2
15-06-18	383	4	3	635815	M793-568	19.788	2.4933	0	16.54398	793	23.28	maggi cheese macaroni pazzta 70g	2
15-06-18	383	4	1	635768	M2196-18	19.788	2.5	0	16.54398	2196	23.3	maggi tomato twist pazzta 64g	2
20-06-18	383	4	1	638685	M6105-74	169.15	30.36	0	299.8772	6105	193.1	mugi ultra liquid detergent 1l	2
21-06-18	383	4	10	638970	B1994-824	15.3	2.746	0	10.3462	1994	18	britannia treat jim jam creme biscuits rs.20	2
21-06-18	383	4	4	638970	P149-9955	24.735	4.44	0	18.5232	149	29.1	parle hide&seek chocolate chip cookies 120g	2
21-06-18	383	4	2	638970	P996-9960	20.655	3.71	0	15.46295	996	24.3	parle hide&seek fab orange biscuits 100g	2
21-06-18	383	4	2	638970	P148-7591	20.6125	3.7	0	15.60031	148	24.3	parle hide&seek fab chocolate biscuits 100g	2
23-06-18	383	4	2	639949	P21543-85	9.996	0	0	6.8	21543	11.76	patanjali iodized namak 1kg	2
04-06-18	385	4	2	602107	P10491-11	16.15	0	0	15.8525	10491	19	ponlait milk 500ml (green)	10
15-06-18	388	4	1	635953	A10510-18	26.35	0	0	22.1	10510	31	auror star idly maaavu 1kg	2
15-06-18	388	4	1	635953	K741-1508	8.245	1.04	0	6.617845	741	9.7	kurkure puffcorn 32g	2
15-06-18	388	4	1	635953	P127-4675	32.98	5.92	0	19.873	127	38.8	pepsodent sensitive extra soft tb	2
15-06-18	388	4	1	635953	R24909-88	4.165	0.74	0	2.852685	24909	4.9	richoco nabati chocolate wafer 16g	2
25-06-18	388	4	1	640811	P987-3033	4.165	0.76	0	3.1416	987	4.9	parle parle-g biscuits rs.5	2
04-06-18	391	4	1	602077	C1028-925	73.44	13.18	0	57.885	1028	86.4	cadbury temptations rum raisins chocolate 72g	1
04-06-18	391	4	1	602077	K17966-15	45.9	8.24	0	38.91623	17966	54	kwaliti walls cornetto disc black forest 120ml	1
04-06-18	391	4	1	602077	W1382-17	8.245	1.48	0	5.661	1382	9.7	wrigleys orbit s/f sweet mint chewing gum rs.10	1



CONTRIBUTION: MASTERCODE



- SAMPLE EXECUTION LOGS:
 1. Case 1: 223 Best match -> ABE, matches -> ABD, ABE, ABF, ACD, ACE, ACF, BCE, BAD, BAE, BAF, CAD, CAE, CAF, CBE
 2. Case 2: 222 Best match -> ABC, matches -> ACB, CAB, CBA, BCA, BAC
 3. Case 3: 779, best match -> None, matches -> None
- PROGRAMMING LANGUAGE USED:
 - Python
- CORE MECHANISM USED IN CODE:
 - Regular Expression(Regex)
 - Permutation and Combination
- PLATFORM USED FOR CODE:
 - Windows (Platform Independent)
 - Pycharm
- CODE DESCRIPTION:
 - In the "Mix and Match" problem statement, I did not use any Out of the box algorithms such as FuzzyWuzzy for solving strings instead of that, I've written the code by using very basic concepts like Condition Statements, Combinations, Regular expressions
 - As per the Problem statement I've completed all the conditions and the problem output should be as a same as the Sample Execution log.

PROBLEM STATEMENT INPUT AND OUTPUT:

1.INPUT PAIR:2 2 3

```
===== RESTART: C:\Users\BHARATH\Desktop\dfg.py =====  
Enter 3 digits from 2 to 9  
enter the digit2  
enter the digit2  
enter the digit3  
matches ['ABE', 'ACE', 'BAE', 'CAE', 'ABD', 'ABF', 'ACD', 'ACF', 'BAD', 'BAF', 'BCE', 'CAD', 'CAF', 'CBE', 'BCD', 'BCF', 'CBD', 'CBF']  
The Best Match ABE
```

2.INPUT PAIR:2 8 4

```
===== RESTART: C:\Users\BHARATH\Desktop\dfg.py =====  
Enter 3 digits from 2 to 9  
enter the digit2  
enter the digit8  
enter the digit4  
matches ['AUI', 'ATI', 'AUG', 'AUH', 'AVI', 'BUI', 'CUI', 'ATG', 'ATH', 'AVG', 'AVH', 'BTI', 'BUG', 'BUH',  
, 'CTG', 'CTH', 'CVG', 'CVH']  
The Best Match AUI
```

3.INPUT PAIR:7 7 9

```
===== RESTART: C:\Users\BHARATH\Desktop\dfg.py =====  
Enter 3 digits from 2 to 9  
enter the digit7  
enter the digit7  
enter the digit9  
Sorry No match Found
```




- PROGRAMMING LANGUAGE USED IN CODE:
 - Python
- CORE MECHANISM USED IN CODE:
 - Beautiful soup(Version-04)
 - Pandas
- PLATFORM USED FOR CODE:
 - Jupyter Notebook(Version-5.7.0)
 - Anaconda(Version-5.2.2)
- PYTHON MECHANISM USED IN CODE:
 - Format page()
 - List[]
 - Dictionary{}
- WEBPAGE DATA:
 - The webpage contains iPhone XS and other iPhones case and covers.
 - There are 31 pages of products are available in the webpage of the flipcart (iPhone xs case & covers)
 - The Url-link and the search engine details are:



- CODE DESCRIPTION:
 - The Objective of the code is to extract the data from the flipcart page and convert the raw data into a Csv-file
 - The data extraction is achieved by using python major packages such as Beautiful-soup and requests module.
 - The extracted data should be stored in a dictionary as a key-value pairs.
 - Then by using the Pandas module the raw data should be converted as a dataframe and stored in a Csv file
 - The resultant Csv file gives the final output of the data extraction

SAMPLE OUTPUT:

Flipcart IPHONE XS MAX MOBILE ACCESSORIES PAGE_
Total number of pages 31
Enter the page-number to be scraped6

Out[3]:

	model_name	offers	price
0	WINDSHAN Back Cover for Apple iPhone XS	[60% off]	₹235
1	WINDSHAN Back Cover for Apple iPhone XS	[66% off]	₹235
2	Mocell Back Cover for Apple iPhone XS	[78% off]	₹278
3	REALIKE Back Cover for Apple iPhone XS	[46% off]	₹799
4	Case-Mate Back Cover for Apple iPhone XS, Appl...	[17% off]	₹1,395
5	Saiarth Styles Back Cover for Apple iPhone XS	[65% off]	₹349
6	MR Mobile Hub Back Cover for Apple iPhone XS	[16% off]	₹2,499
7	XRP Back Cover for Apple iPhone XS	[82% off]	₹140
8	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
9	Spigen Back Cover for Apple iPhone XS	[23% off]	₹2,219
10	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
11	Kgl King Back Cover for Apple iPhone XS	[76% off]	₹139
12	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
13	Openbuy Back Cover for Apple iPhone XS	[84% off]	₹152
14	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
15	Kgl King Back Cover for Apple iPhone XS	[76% off]	₹139
16	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
17	Kgl King Back Cover for Apple iPhone XS	[76% off]	₹139
18	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
19	Openbuy Back Cover for Apple iPhone XS	[84% off]	₹152
20	Kgl King Back Cover for Apple iPhone XS	[76% off]	₹139
21	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
22	Kgl King Back Cover for Apple iPhone XS	[76% off]	₹139
23	Vodex Back Cover for Apple iPhone XS, Apple iP...	[20% off]	₹1,199
24	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
25	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
26	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
27	Kgl King Back Cover for Apple iPhone XS	[76% off]	₹139
28	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
29	Vodex Flip Cover for Apple iPhone XS, Apple iP...	[20% off]	₹1,199
30	Kgl King Back Cover for Apple iPhone XS	[76% off]	₹139
31	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
32	Coolbug Back Cover for Apple iPhone XS	[69% off]	₹198
33	Vodex Flip Cover for Apple iPhone XS, Apple iP...	[20% off]	₹1,199
34	Kgl King Back Cover for Apple iPhone XS	[76% off]	₹139
35	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
36	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
37	Kgl King Back Cover for Apple iPhone XS	[76% off]	₹139
38	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
39	Vodex Flip Cover for Apple iPhone XS, Apple iP...	[20% off]	₹1,199



Negative



Neutral



Positive

- FRAMEWORK USED IN CODE:
 - **Hadoop(Bigdata)**
- TOOLS USED IN CODE:
 - **Pig**
- CORE MECHANISM USED IN CODE:
 - **Pig scripts**
 - **Dictionary**
 - **Tokens**
- PLATFORM USED FOR CODE:
 - **Lubuntu(Linux-distro)**
 - **Grunt shell(Pig)**
- STORAGE SPACE USED IN CODE:
 - **HDFS (Hadoop Distributed File System)**
 - **Pig storage**
- DATASET USED:
 - The Dataset used for the data analysis is from the Twitter platform and the tweets are collected from the Twitter.csv file
 - The Twitter.csv file that contains both Positive and Negative tweets of the demonetization and it is used to find the people opinion about the demonetization.

text	favorited	favoriteCount	replyToSN	created	truncated	replyToSID	id	replyToUID	statusSource	screenName	retweetCount	isRetweet	retweeted
1 RT @ssurjewala: Cri	FALSE	0	NA	2016-11-23 18:40:30	FALSE	NA	8014956569763184	NA	<a href="http://twitter: HASHTAGFARZIWA		331	TRUE	FALSE
2 RT @Homani_80: D'	FALSE	0	NA	2016-11-23 18:40:26	FALSE	NA	8014956517784130	NA	<a href="http://twi/ta/ PRAMODKAUSHIK9		66	TRUE	FALSE
RT @vishanjan: Fom													
3 If not for Asim Aadmi	FALSE	0	NA	2016-11-23 18:40:03	FALSE	NA	8014955442668218	NA	<a href="http://twitter: rahulja13034944		12	TRUE	FALSE
4 RT @ANI_news: Gun	FALSE	0	NA	2016-11-23 18:39:56	FALSE	NA	8014955270241607	NA	<a href="http://tw/ta/ deopl/yvd		338	TRUE	FALSE
5 RT @antishacharya:	FALSE	0	NA	2016-11-23 18:39:36	FALSE	NA	8014954455633600	NA	<a href="http://cpim/ CPIMBadli		120	TRUE	FALSE

- CODE DESCRIPTION:
 - The Tweets from the csv file should be transfer into the Hdfts and by using the load operator, the Tweets.csv file moved to the Pig storage
 - After that analyzing the csv by using dictionary, tokenizer and grouping operation.
 - Then finally separate the Positive and Negative tweets by using the Affin dictionary, the words are separated by rating of the words
 - The count of the Positive and negative tweets should be recorded.

SAMPLE OUTPUT:

((("7969","OK 💎 now don💎t complain that modi ji promised 2 Crore jobs a year but did only 1.35 Lakh. He is making up for thru💎 <https://t.co/RiON3cqAlH>"),-0.5)

((("7997","RT @sukanyaiyer2: #DeMonetization AAP protests by marching Against Govts move over DeMonetization & he is also detained as he Tried 2 March💎"),-2.0)

((("7998","#demonetization will help combat terror because Pak won't be able to print new notes! And now),-0.6666666666666666)

((("8000","RT @UnSubtleDesi: Kejriwal posts pic of dead robber and claims it's #demonetization related death? How shameless has this man become? <https://t.co/...>"),-2.5)

((Only noise, chaos & disruptions by obstructionist #💎"),-2.0)

((Only noise, chaos & disruptions by obstructi💎 <https://t.co/zVE7MYt04G>"),-2.0)

((5% bad idea, poor implementation"),-2.0)

((25% good idea, poor implementation),-2.0)

((If not for Aam Aadmi, listen to them no PM Modi?"),-1.0)

((Aim of #demonetization laudable, but Govt has no road map2create... <https://t.co/A4Geu9chOv>"),-1.0)

((Enough jokes on #Demonetization, also no more posts on politics or social affairs...),-1.0)

((RT @kanimozhi: Everyone seems to hate the rich, even the rich hates richer and the richer hates the richest. #Demonetization"),-1.3333333333333333)