

Amazon Gift Card Reviews

The Trials of fire! Cole Baugh & Brey Rivera

Our Goal



Where we got the data

http://deepyeti.ucsd.edu/jianmo/amazon/index.html

Files

Complete review data

You can download the complete dataset through the link on this website.

raw review data (34gb) - all 233.1 million reviews

ratings only (6.7gb) - same as above, in csv form without reviews or metadata

5-core (14.3gb) - subset of the data in which all users and items have at least 5 reviews (75.26 million reviews)

meta data (12gb) - meta data for all products

· We also provide a colab notebook that helps you parse and clean the data.

duplicated product list (126mb) - list of duplicated products

Per-category data - the review and product metadata for each category.

AMAZON FASHION All Beauty Appliances Arts Crafts and Sewing Automotive Books CDs and Vinvl Cell Phones and Accessories Clothing Shoes and Jewelry **Digital Music** Electronics Gift Cards Grocery and Gourmet Food Home and Kitchen Industrial and Scientific Kindle Store Luxury Beauty Magazine Subscriptions Movies and TV Musical Instruments Office Products Patio Lawn and Garden Pet Supplies Prime Pantry Software Sports and Outdoors Tools and Home Improvement Toys and Games Video Games

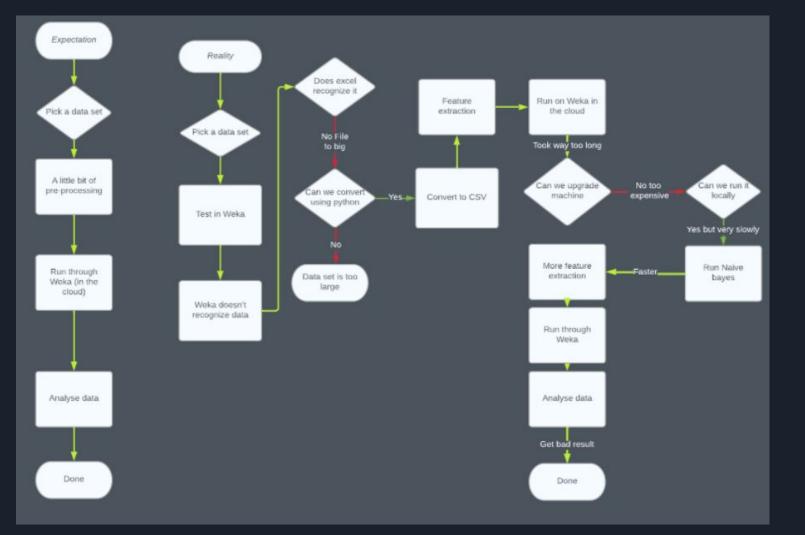
reviews (883,636 reviews) reviews (371,345 reviews) reviews (602,777 reviews) reviews (2.875,917 reviews) reviews (7,990,166 reviews) reviews (51,311,621 reviews) reviews (4,543,369 reviews) reviews (10.063.255 reviews) reviews (32,292,099 reviews) reviews (1.584.082 reviews) reviews (20,994,353 reviews) reviews (147,194 reviews) reviews (5.074,160 reviews) reviews (21,928,568 reviews) reviews (1.758.333 reviews) reviews (5,722,988 reviews) reviews (574,628 reviews) reviews (89.689 reviews) reviews (8,765,568 reviews) reviews (1.512,530 reviews) reviews (5.581.313 reviews) reviews (5.236.058 reviews) reviews (6.542,483 reviews) reviews (471,614 reviews) reviews (459,436 reviews) reviews (12,980,837 reviews) reviews (9.015.203 reviews) reviews (8.201.231 reviews) reviews (2,565,349 reviews)

metadata (186.637 products) metadata (32,992 products) metadata (30,459 products) metadata (303,426 products) metadata (932.019 products) metadata (2.935.525 products) metadata (544,442 products) metadata (590,269 products) metadata (2.685.059 products) metadata (465,392 products) metadata (786.868 products) metadata (1.548 products) metadata (287.209 products) metadata (1.301.225 products) metadata (167,524 products) metadata (493.859 products) metadata (12.308 products) metadata (3,493 products) metadata (203.970 products) metadata (120,400 products) metadata (315.644 products) metadata (279.697 products) metadata (206,141 products) metadata (10.815 products) metadata (26.815 products) metadata (962.876 products) metadata (571,982 products) metadata (634,414 products) metadata (84,893 products)



What the data looks like

	A	В	С	D	E	F	G	Н	1	J	K	L
1	overall	vote	verified	reviewTime	reviewerID	asin	style	reviewerName	reviewText	summary	unixReviewTin	r image
2	1	25	FALSE	12 19, 2008	APV13CM0919JD	B001GXRQW0	{'Gift Amount:': ' 50'}	LEH	Amazon,	Merry Christmas	. 1229644800	1
3	5		FALSE	12 17, 2008	A3G8U1G1V082SN	B001GXRQW0	{'Gift Amount:': ' 50'}	Tali	I got this gift card f	Gift card with be	1229472000)
4	5	4	FALSE	12 17, 2008	A11T2Q0EVTUWP	B001GXRQW0	{'Gift Amount:': ' 50'}	Z	aren't we going to	A convenient and	1229472000	ĺ
5	5		FALSE	12 17, 2008	A9YKGBH3SV22C	B001GXRQW0	{'Gift Amount:': ' 25'}	Giotravels	You can always get	t Totally make sen	1229472000	
6	1		TRUE	12 17, 2008	A34WZIHVF3OKOL	B001GXRQW0		King Dad	Why take 50	Give CASH!	1229472000	
7	3	146	FALSE	12 16, 2008	A221J8EC5HNPY6	B001GXRQW0	{'Gift Amount:': ' 25'}	D. Daniels	Gift Cards are the	t Great Gift but on	1229385600	Í.
8	1	577	TRUE	12 14, 2008	A204VFHD6JWASO	B001GXRQW0	{'Gift Amount:': ' 50'}	C. Michael Gamble	I am a dedicated A	Prime Members	1229212800	1
9	1	452	TRUE	12 11, 2008	A3QN3GMNS7NBIQ	B001GXRQW0	{'Gift Amount:': ' 50'}	MjSher	Bought three \$50	Horrible experier	1228953600	
10	5	3	FALSE	12 10, 2008	A1BXZIDZOMBAV2	B001GXRQW0	{'Gift Amount:': ' 50'}	D. Magilnick	At this time of year	r These are great g	1228867200	ĺ
11	1	45	TRUE	12 6, 2008	AJ7D8N3Z1Q7MK	B001GXRQW0	{'Gift Amount:': ' 50'}	P. Chung	I bought 8 gift	They are sealed i	1228521600)





What the data looks like preprocessed

	A	В	С	D	E	F	G	Н	1	J	K		L	М	N	0	P	Q	R	S
1 5	tars	image	reviewLen	disappoint	great	amazing	like	bad	waste	bought	fraud	exp	pired	nice	easy	perfect	thank	dont	very	never
2	1	FALSE	74	1	0	0	0		1 ()	0	0	0	(0 0)	0 (0	0 (0 0
3	5	FALSE	23	0	1	0	0		0 0)	0	0	0	() ()	0 (0	0 (0 0
4	5	FALSE	116	0	1	0	0		0 0)	0	0	0	(0 0)	0 (D	0	1 0
5	5	FALSE	40	0	0	0	1	10	0 0)	0	0	0	() ()	0 (D	1 (0 0
6	1	FALSE	84	0	0	0	0		0 0)	0	0	0	() ()	0 (0 0	0 (0 0
7	3	FALSE	95	0	0	0	0		1 0)	0	0	0	() ()	0 (0 0	0	1 0
8	1	FALSE	53	0	0	0	0		0 0)	0	0	0	() ()	0 (0	0 (0 1
9	1	FALSE	91	0	0	0	0		0 0)	1	0	0	() ()	0 (D	1 (0 0
10	5	FALSE	43	0	0	0	0		0 0)	0	0	0	() ()	0 (0	0 (0 0
11	1	FALSE	119	0	0	0	0		0 0)	1	0	0	() ()	0 :	1 (0 (0 0
12	5	FALSE	10	0	1	0	0		0 0)	0	0	0	() ()	0 (0	0 (0 0
13	5	FALSE	5	0	0	0	1		0 0)	0	0	0	() ()	0 (0	0 (0 0
14	4	FALSE	2	0	0	0	0	1	0 0)	0	0	0	() ()	0 (0	0	1 0
15	5	FALSE	5	0	0	0	0		0 0)	0	0	0	() ()	0 (0	0 (0 0
16	4	FALSE	9	0	0	0	0		0 0)	0	0	0	() ()	0 (0	0 0	0 0
17	5	FALSE	3	0	0	0	0		0 0)	0	0	0	() ()	0 0	0	0 0	0 0
18	5	FALSE	1	0	0	0	0	1	0 0)	0	0	0	() ()	0 (0	0 0	0 0
19	5	FALSE	29	0	0	0	1	1	0 0)	0	0	0	() ()	2 (0	1 (0 0

Naive Bayes Test Results (10 Folds)



Result A

Used a list based on words that appeared 1000 times in the dataset

	5 Stars	4 Stars	3 Stars	2 Stars	1 Star
1 Star	5722	89	107	237	999
2 Stars	1293	21	33	71	224
3 Stars	2406	49	43	118	378
4 Stars	7136	143	153	301	960
5 Stars	105574	1900	2064	3876	13132

	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
Precision	0.064	0.015	0.018	0.064	0.864
Recall	0.14	0.043	0.014	0.016	0.834

72.6591%

Overall Accuracy of Result A



Result B

Used a custom list of 15 words ['excellent', 'however', 'cannot', 'easy', 'very', 'happy', 'really', 'not', 'love', 'good', 'poorly', 'bad', 'okay', 'great']

	5 Stars	4 Stars	3 Stars	2 Stars	1 Star
1 Star	6937	7	5	5	200
2 Stars	1608	0	0	0	34
3 Stars	2920	5	0	0	69
4 Stars	8538	7	3	1	144
5 Stars	124472	132	44	32	1866

	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
Precision	0.086	0	0	0.046	0.862
Recall	0.028	0	0	0.001	0.984

84.7989%

Overall Accuracy of Result B