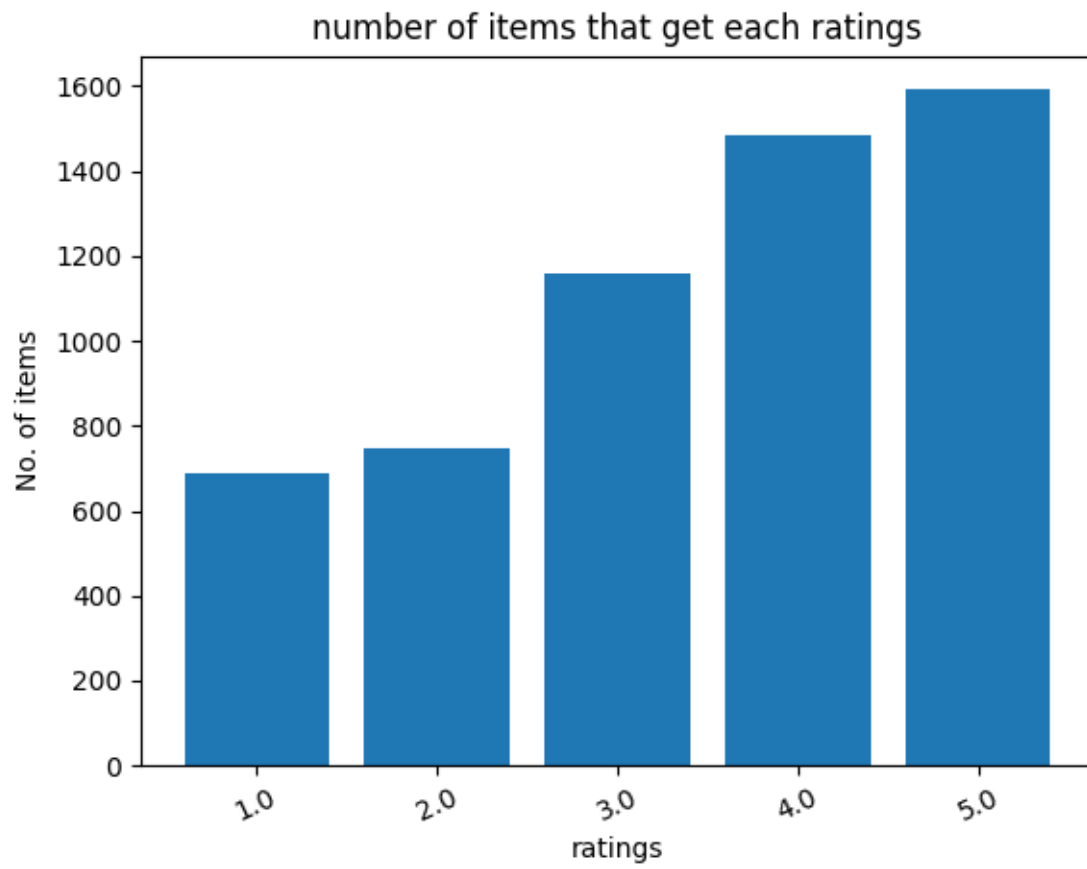
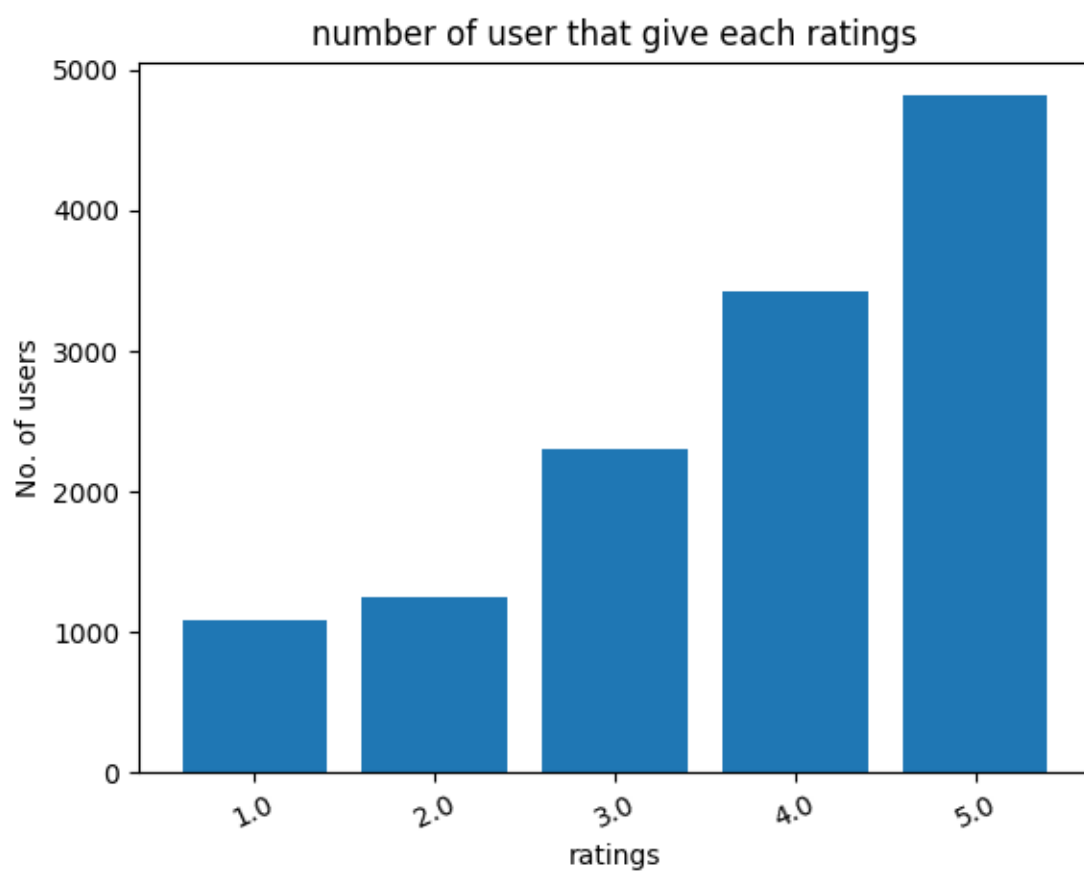
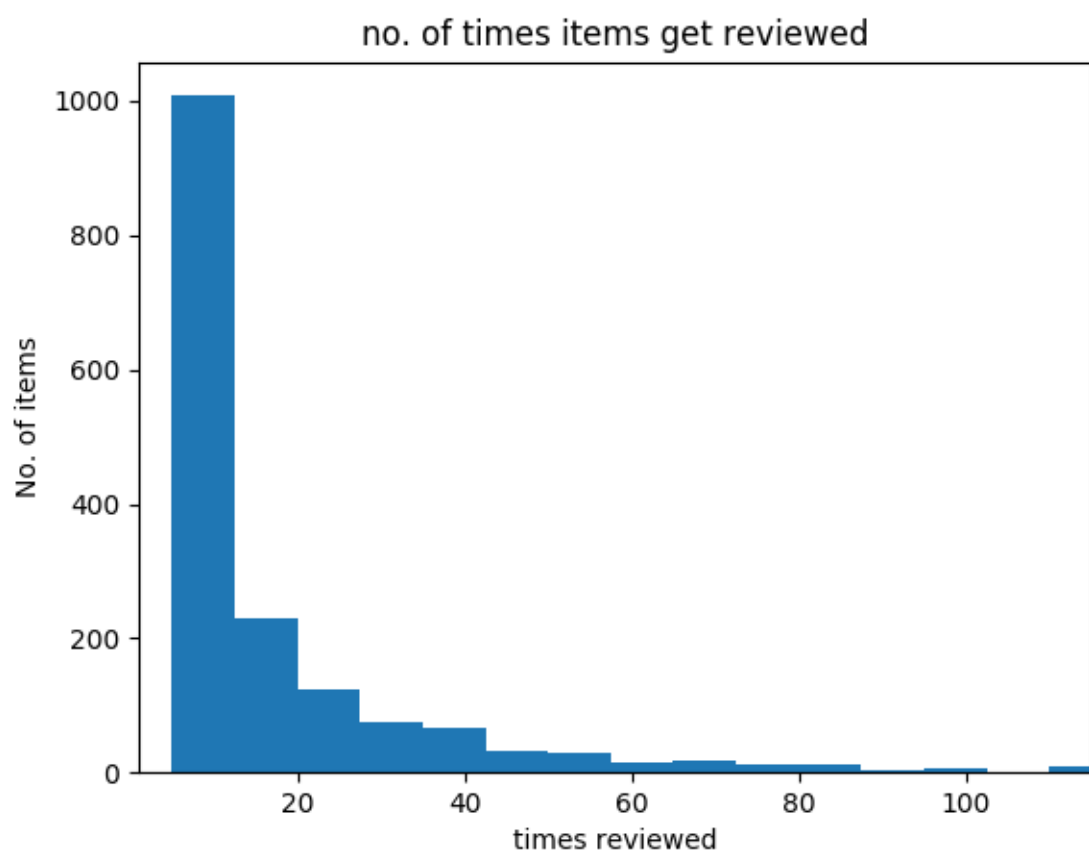


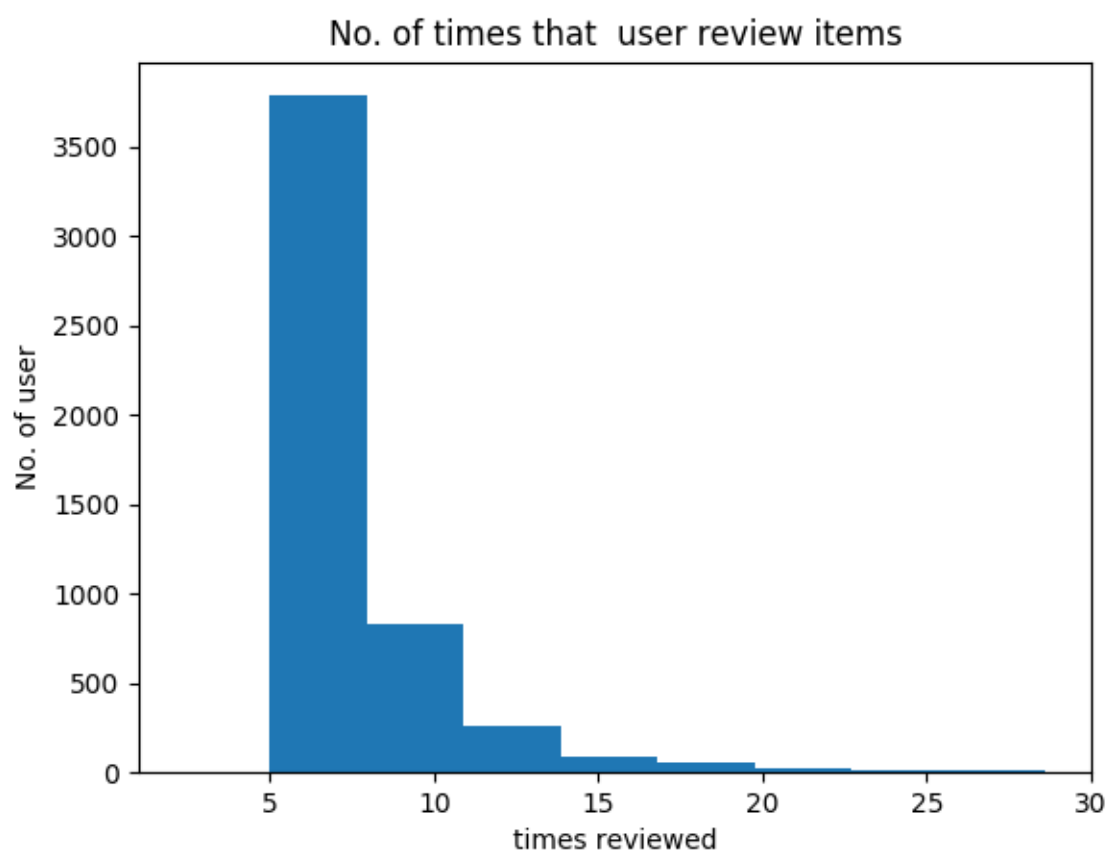
These are the histograms for each departments in Amazon.

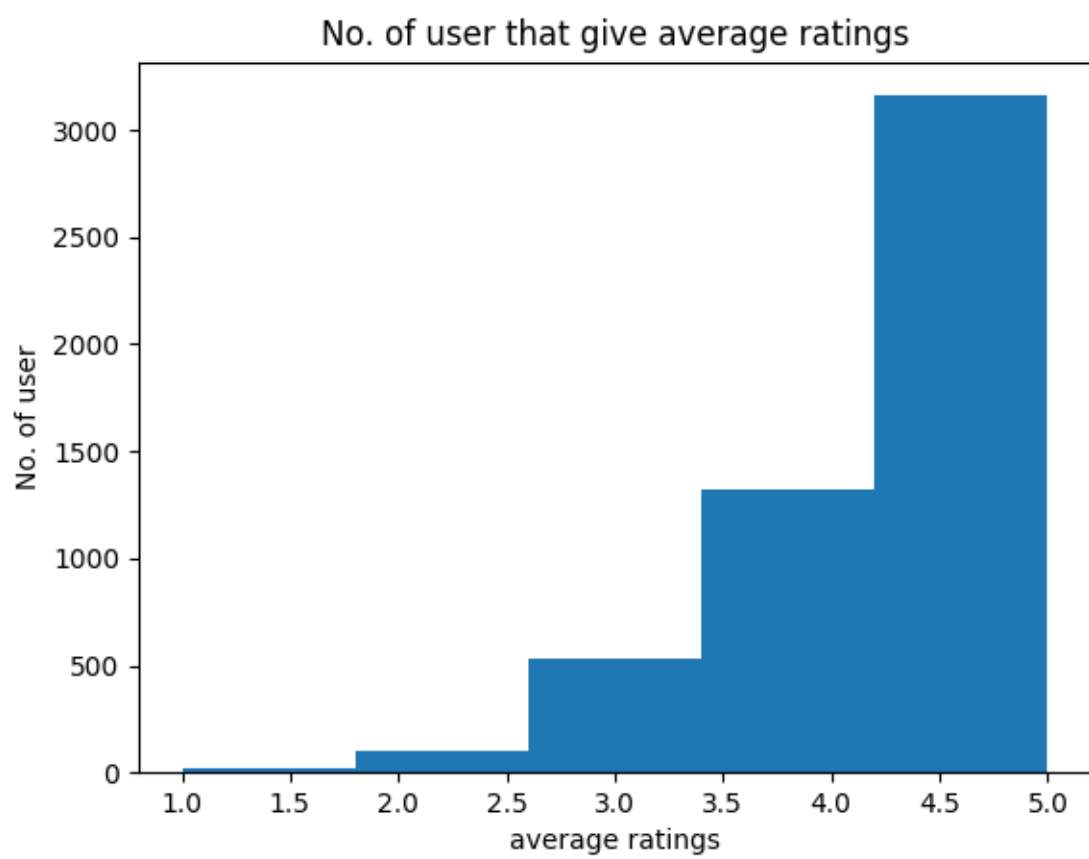
1)Instant videos

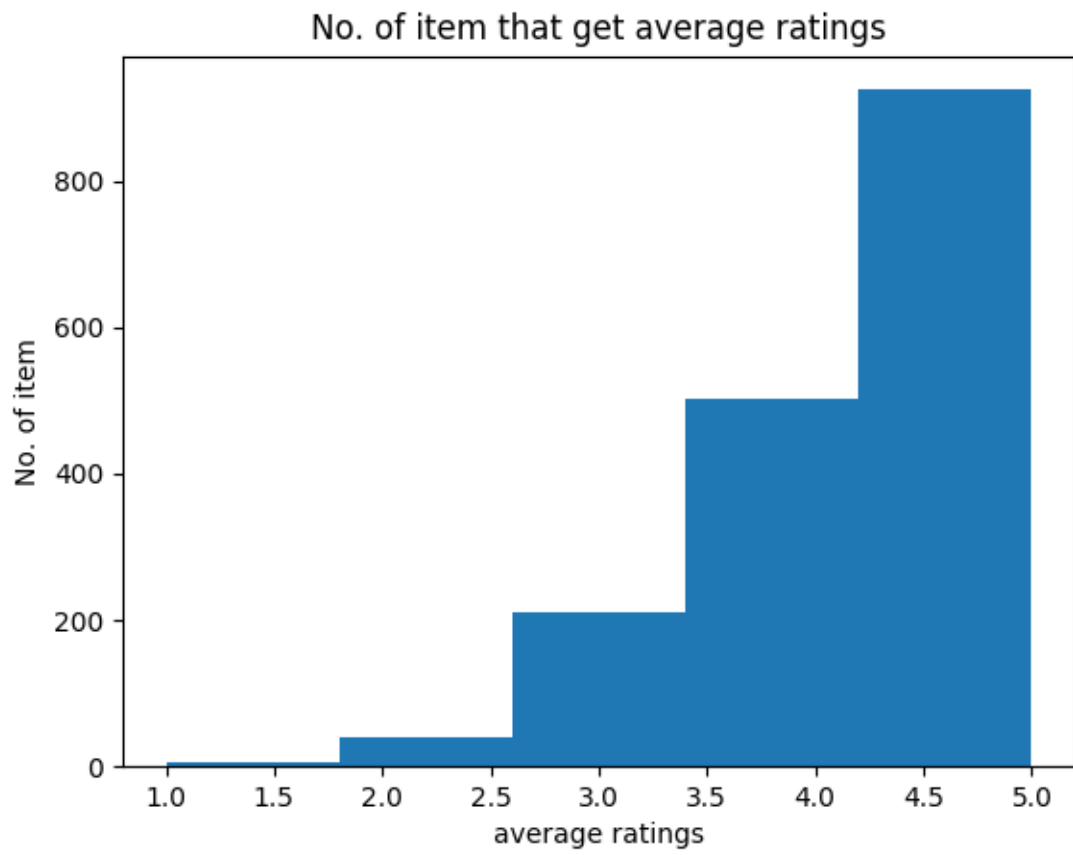


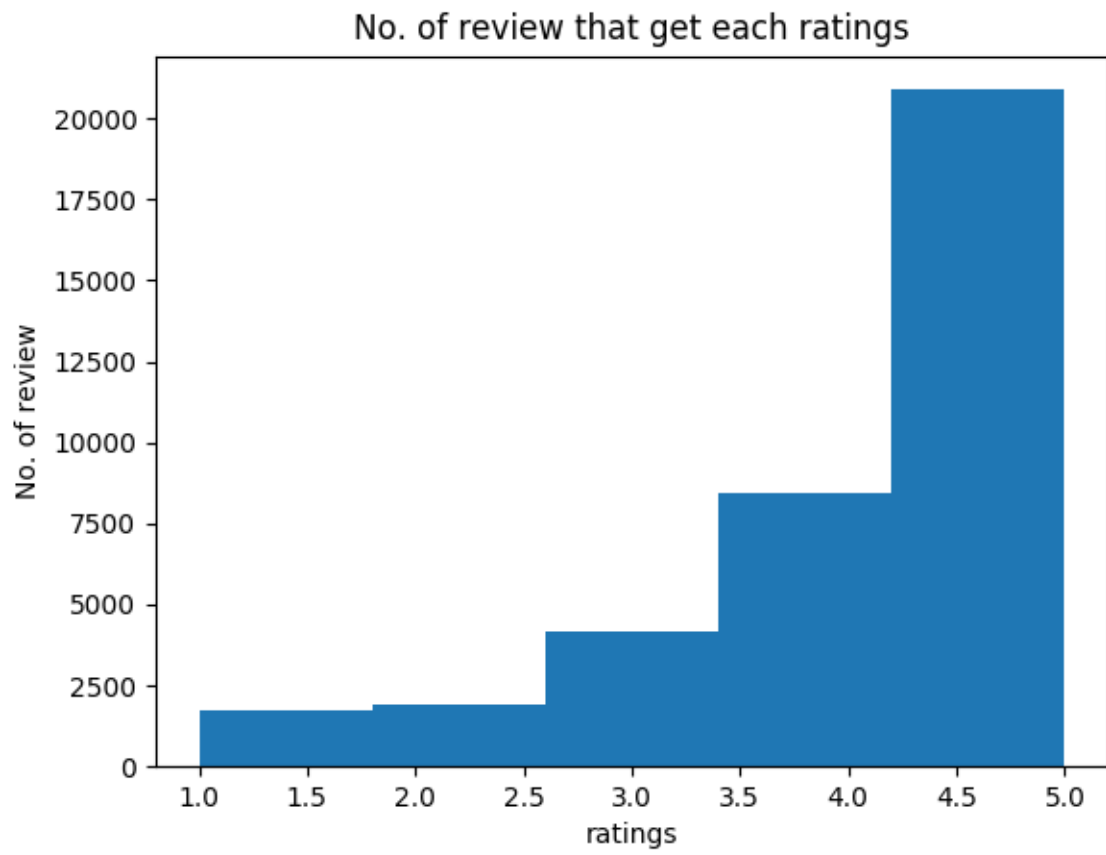


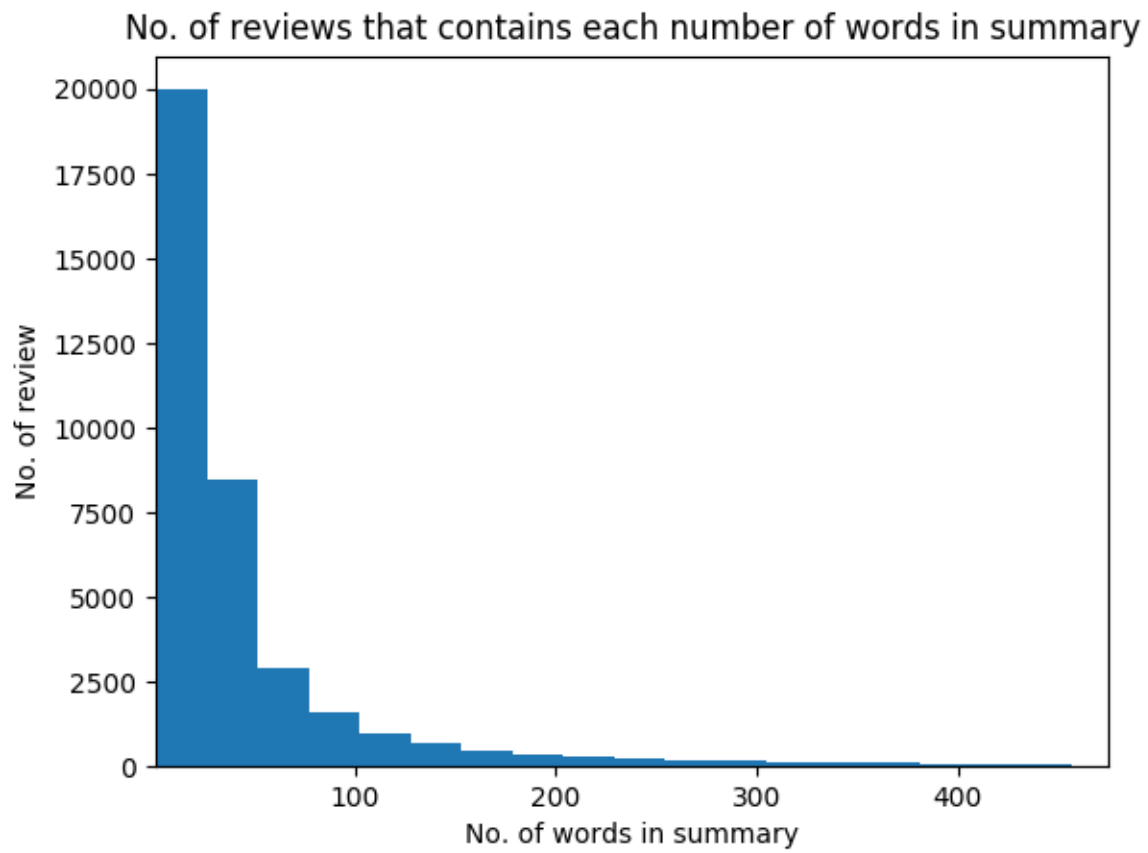




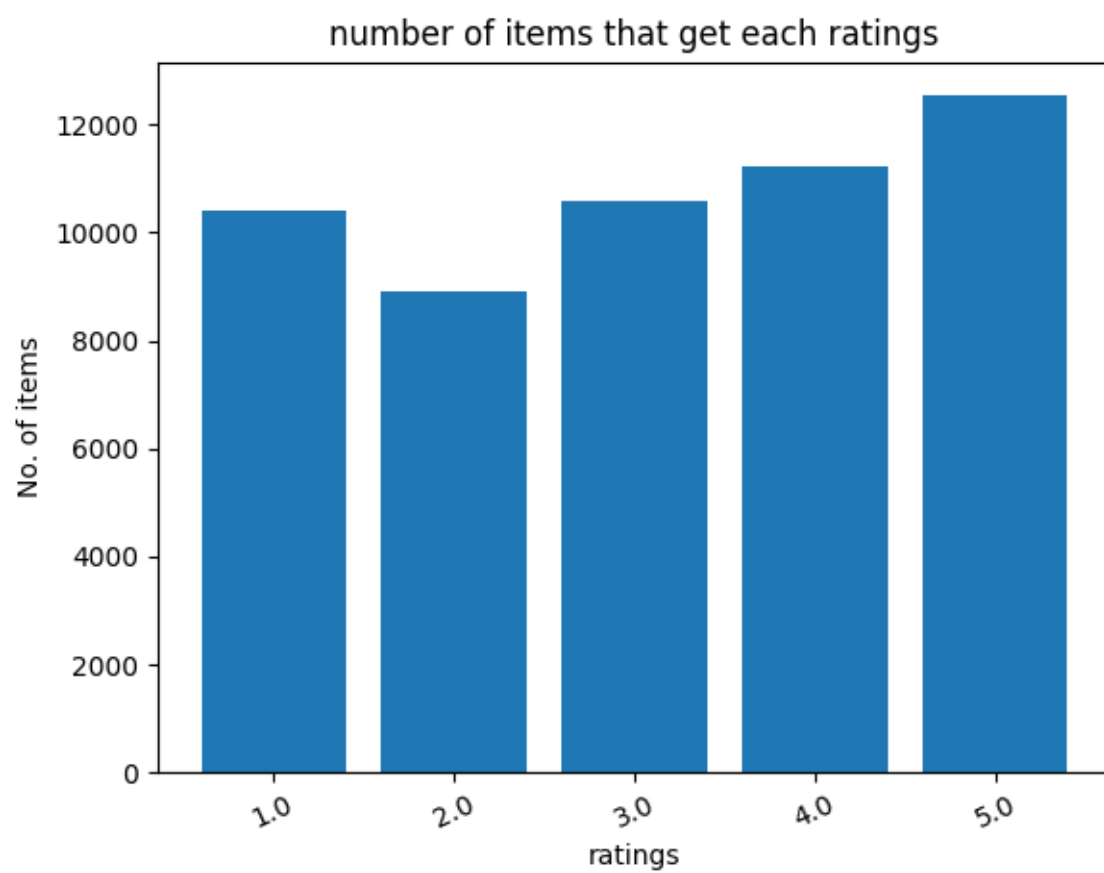


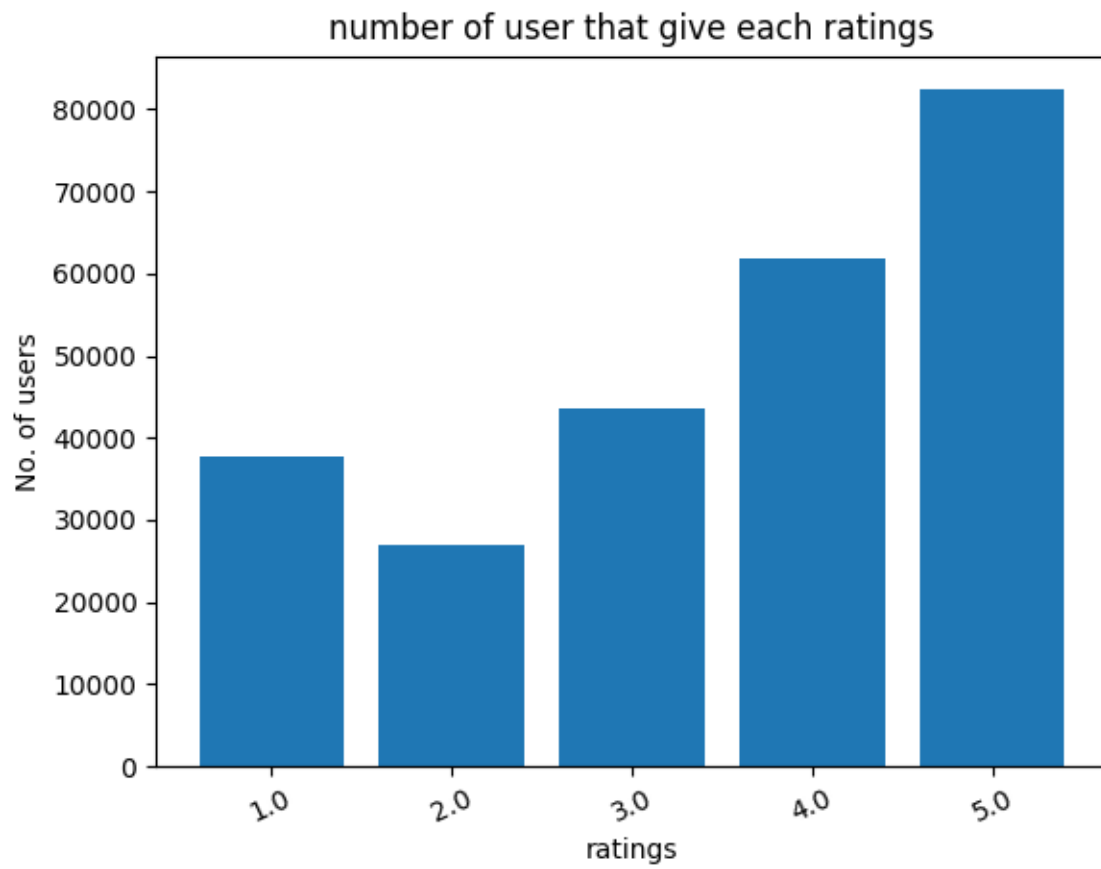


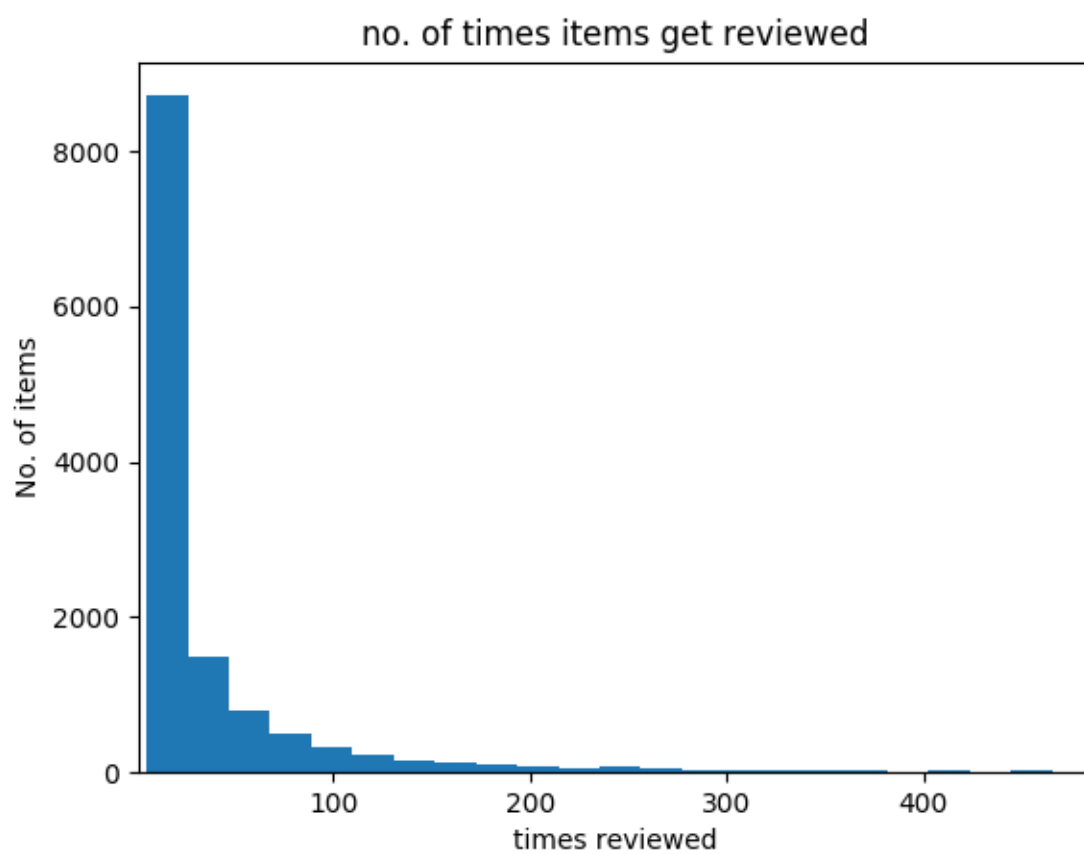


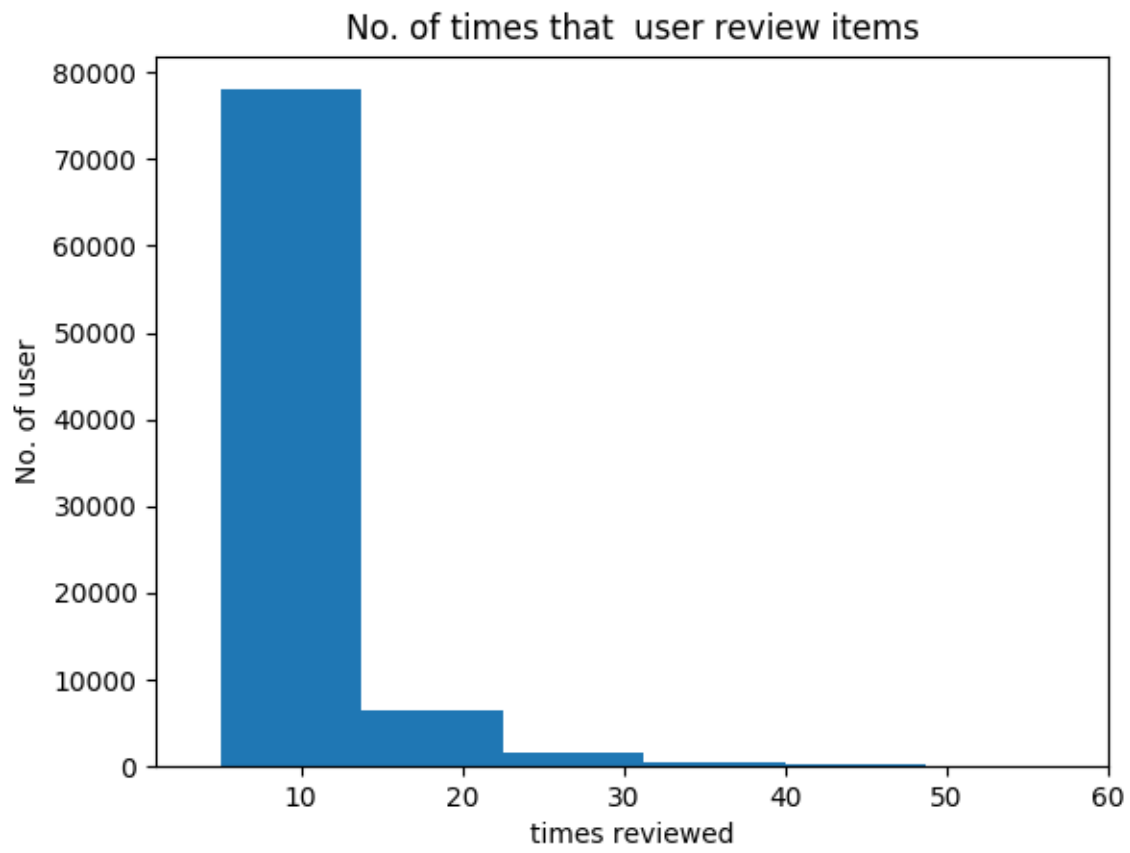


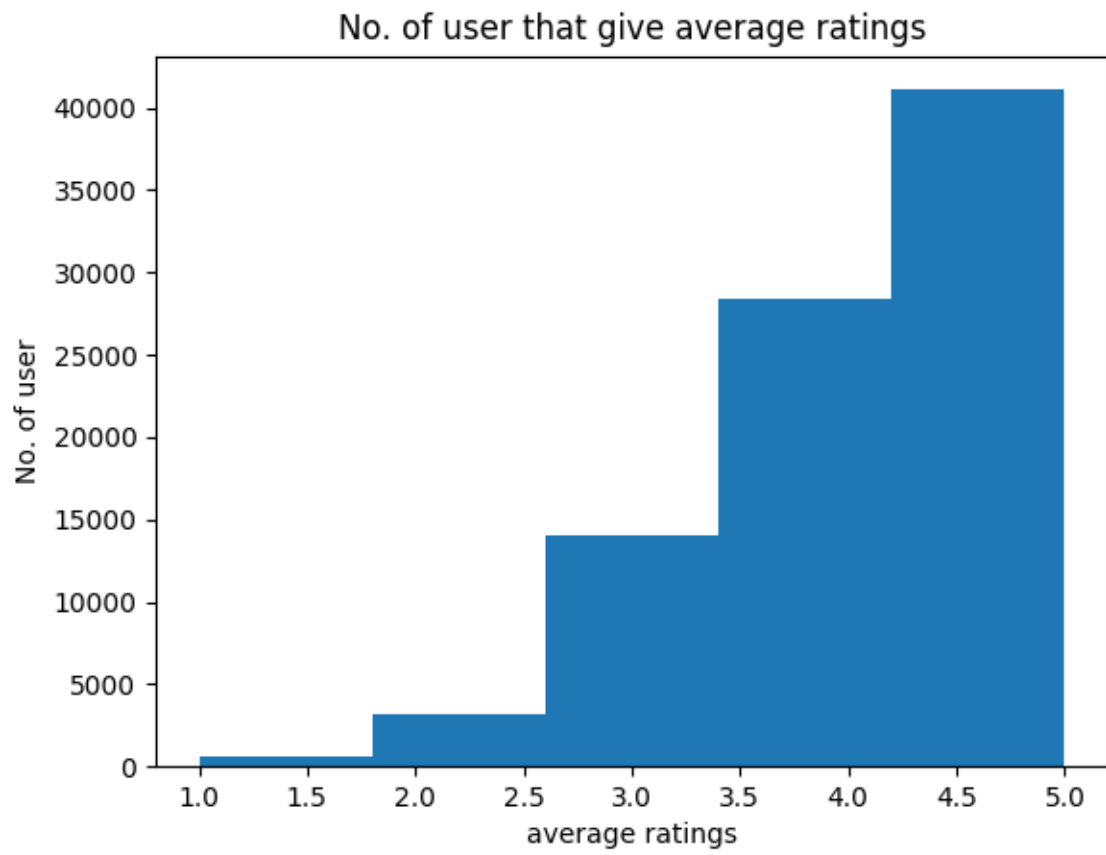
2)Android apps

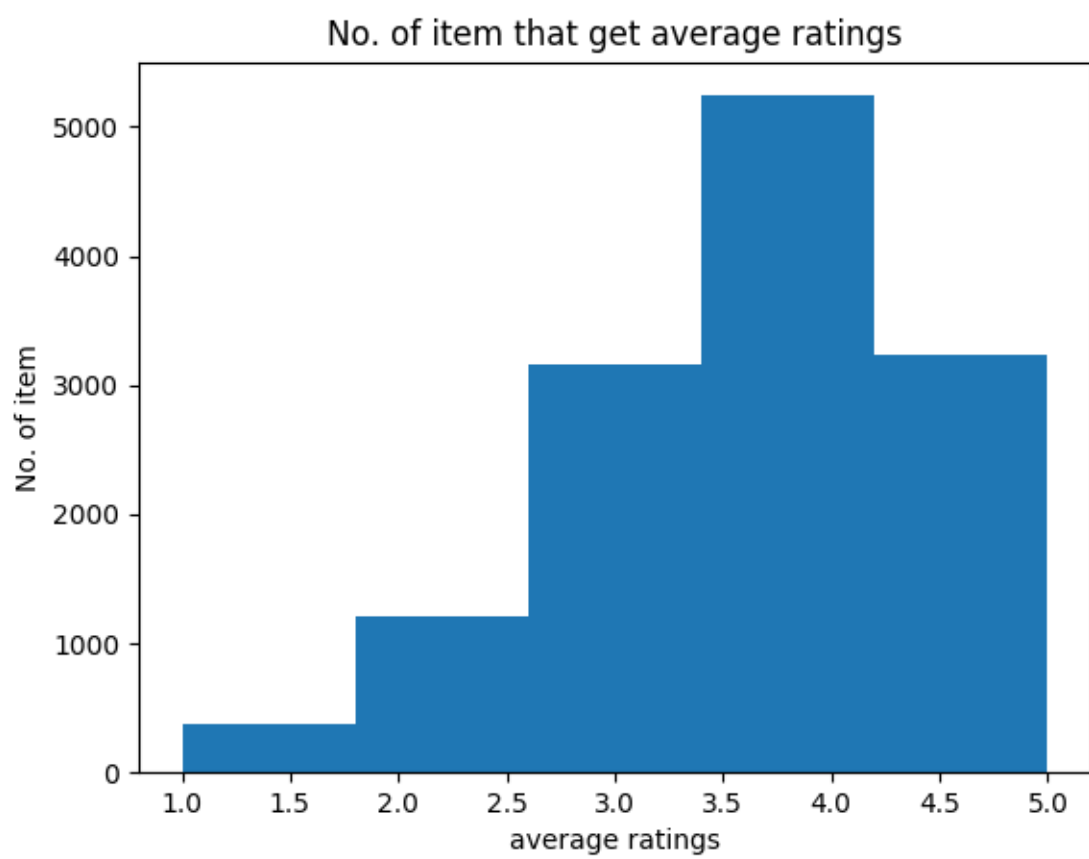


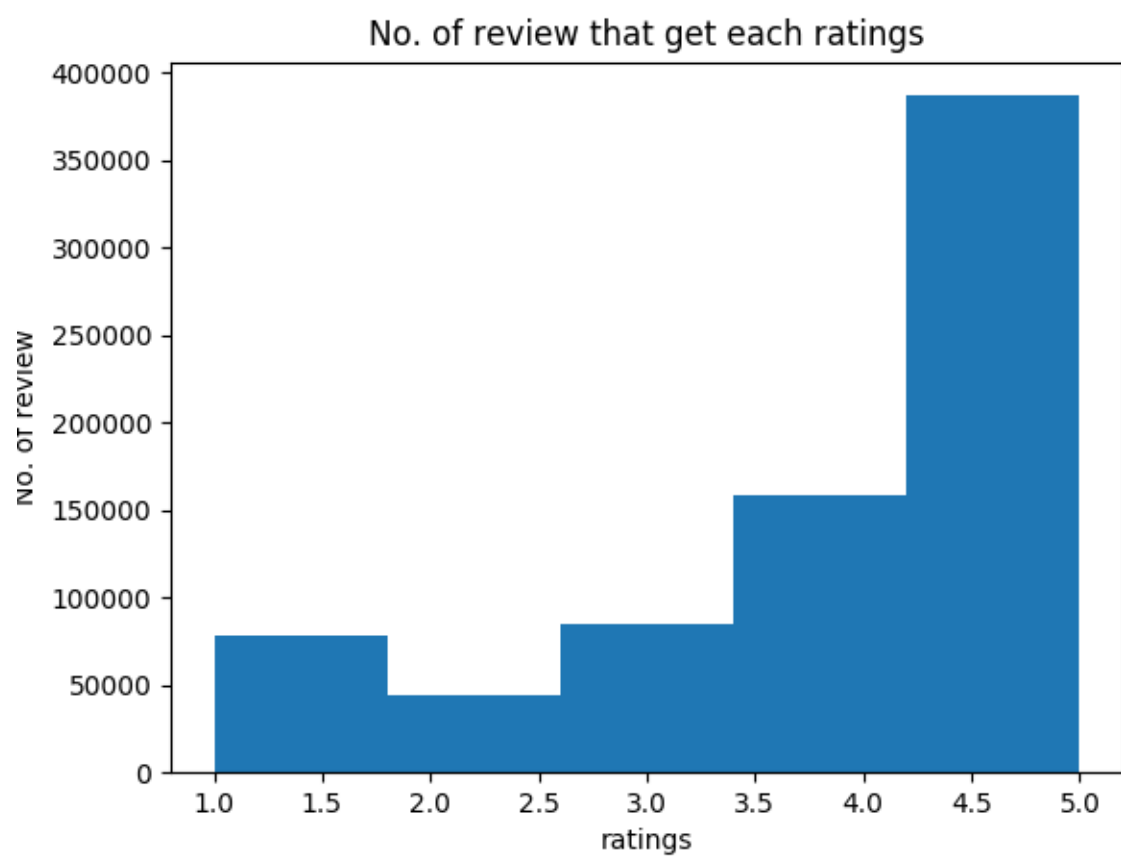


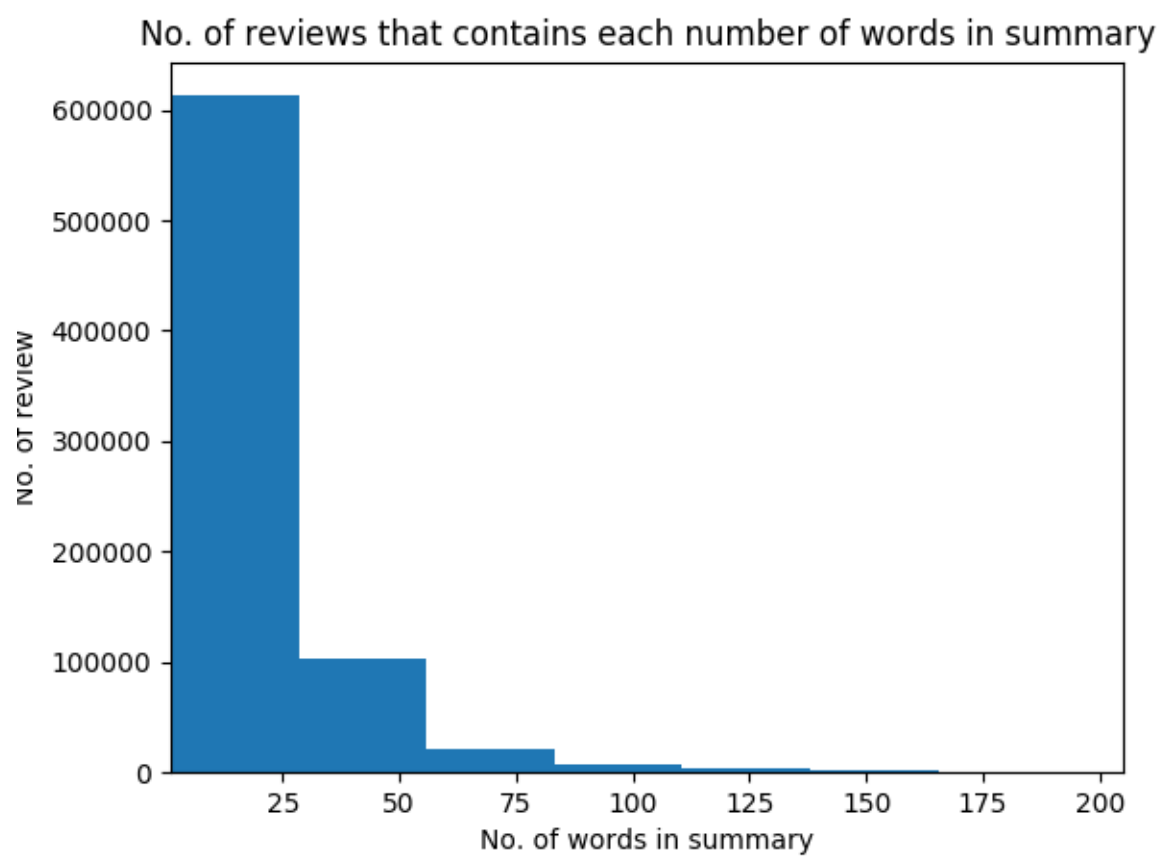




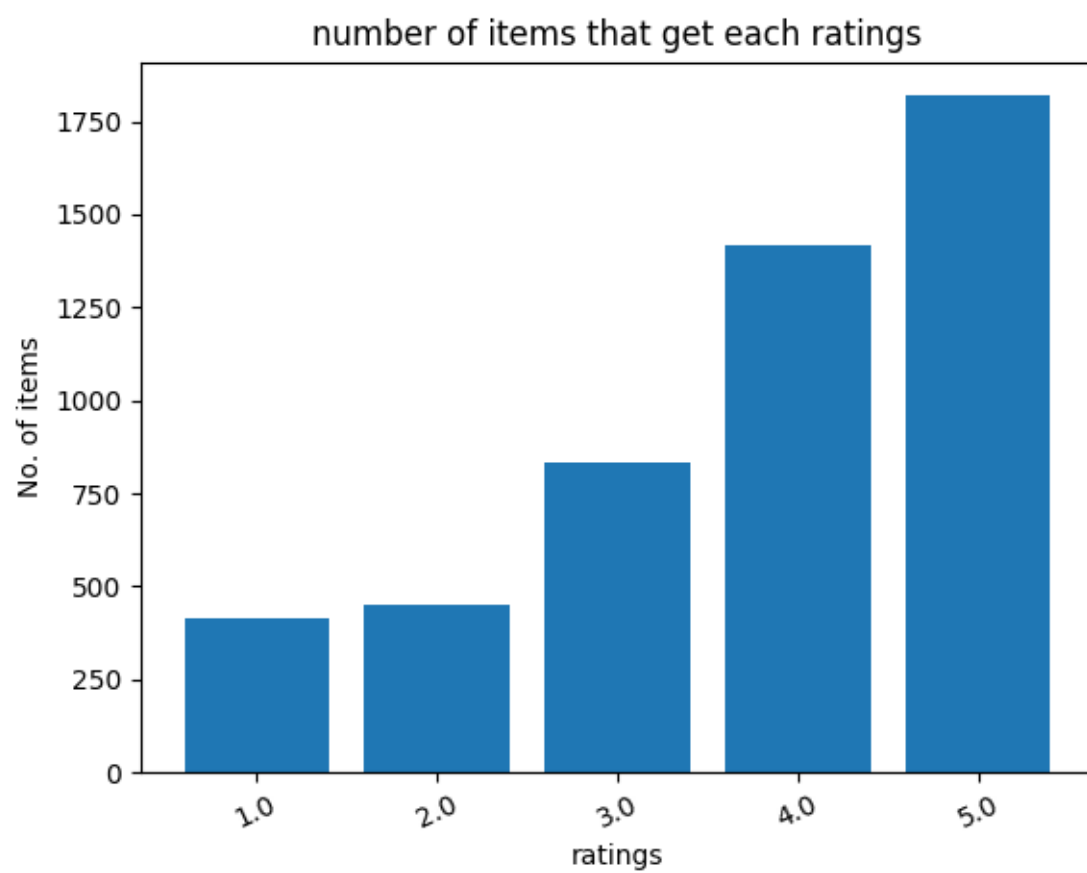


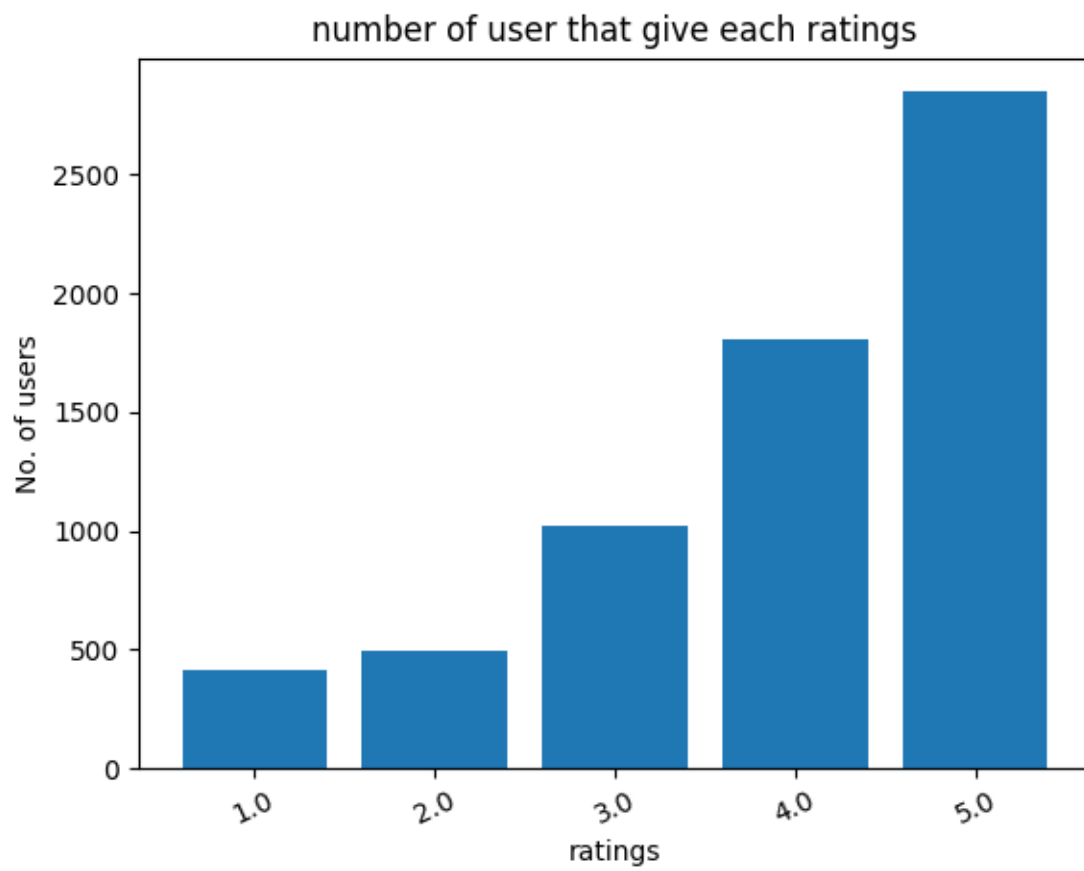


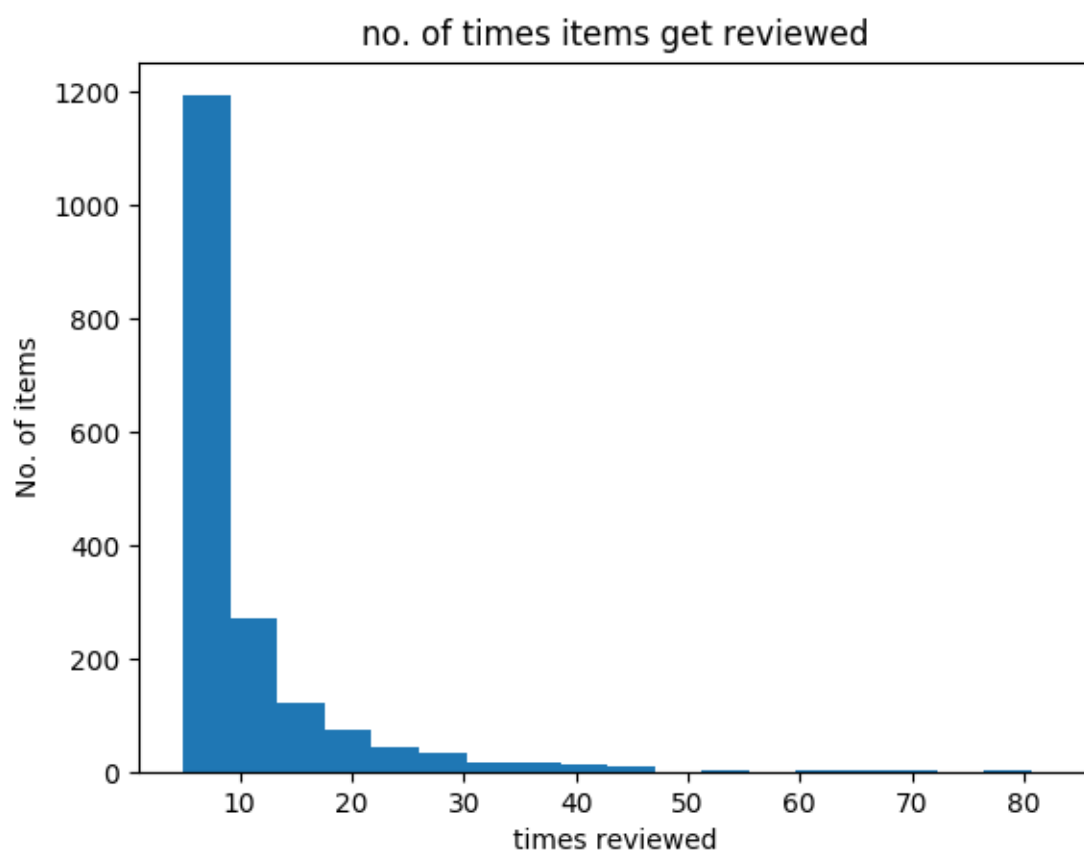


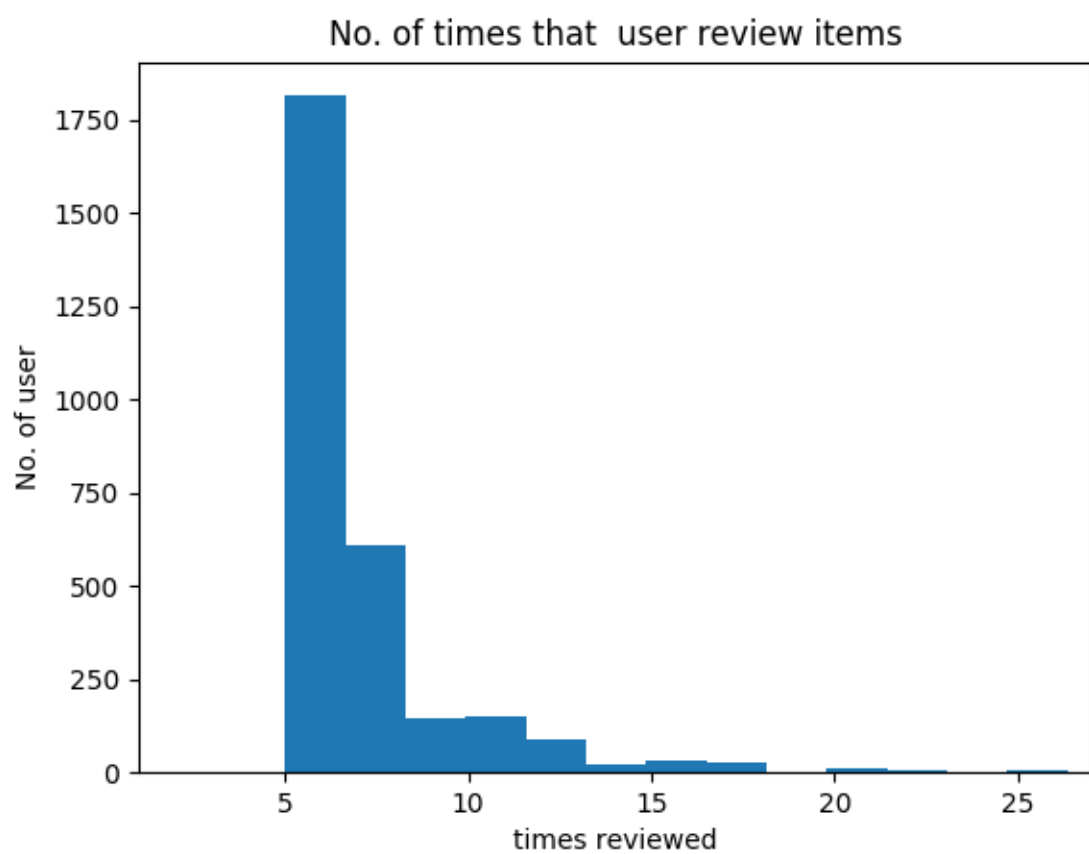


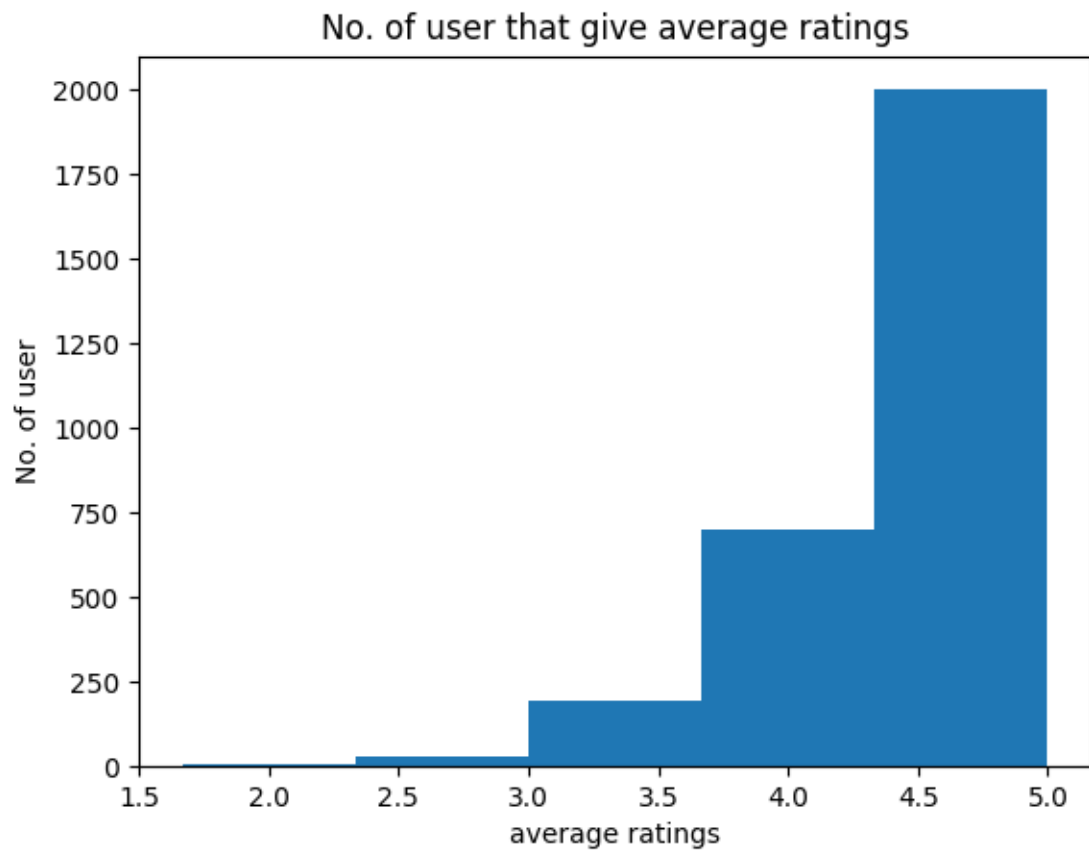
3) Automotive

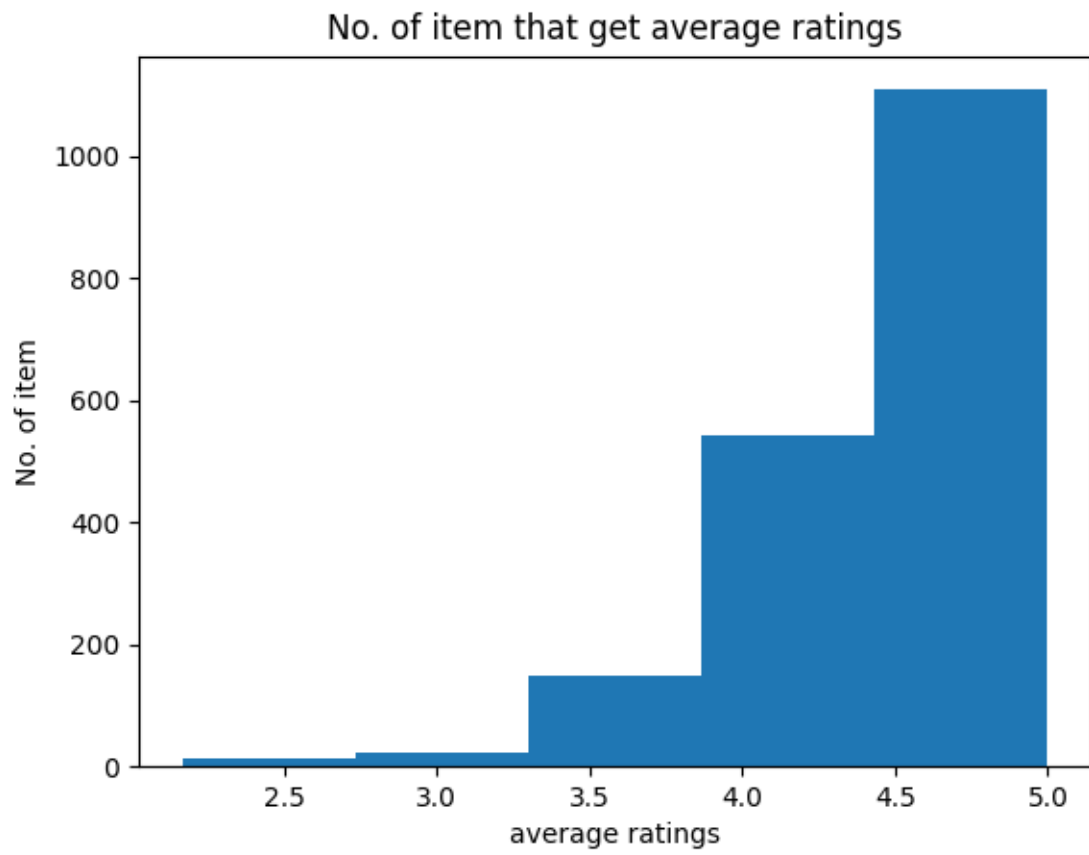


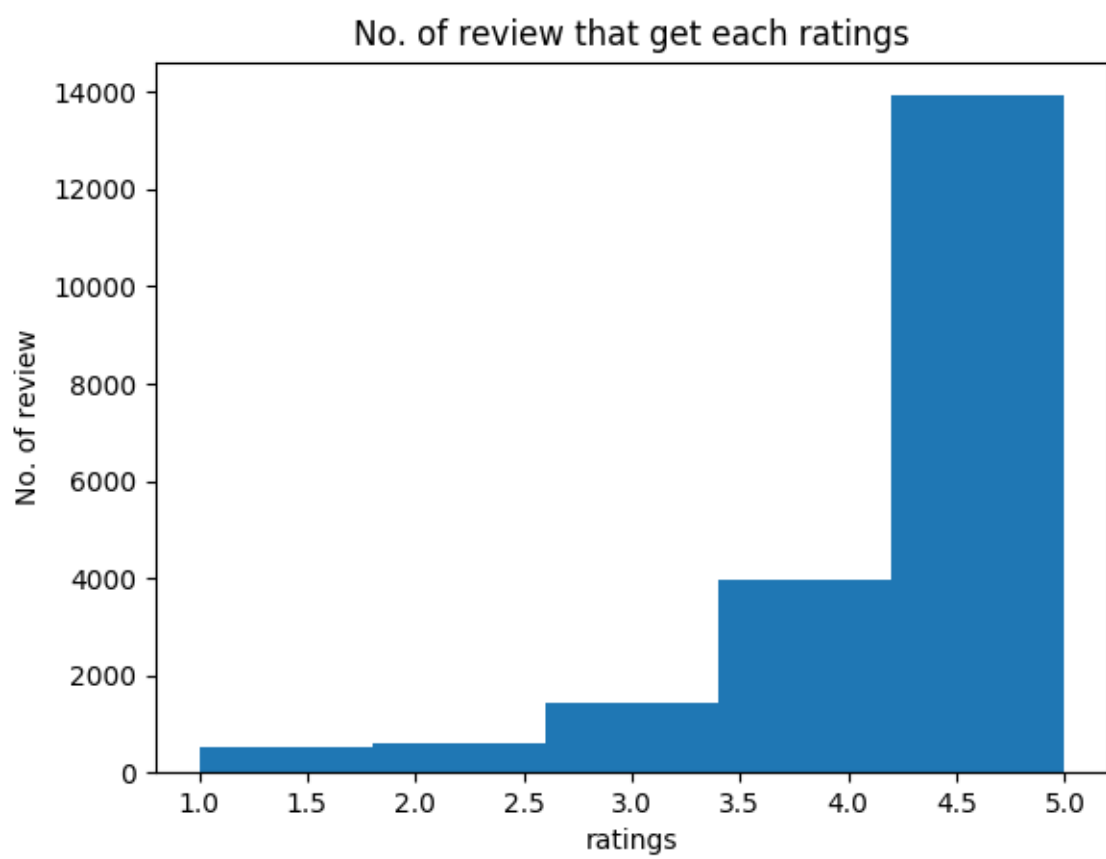


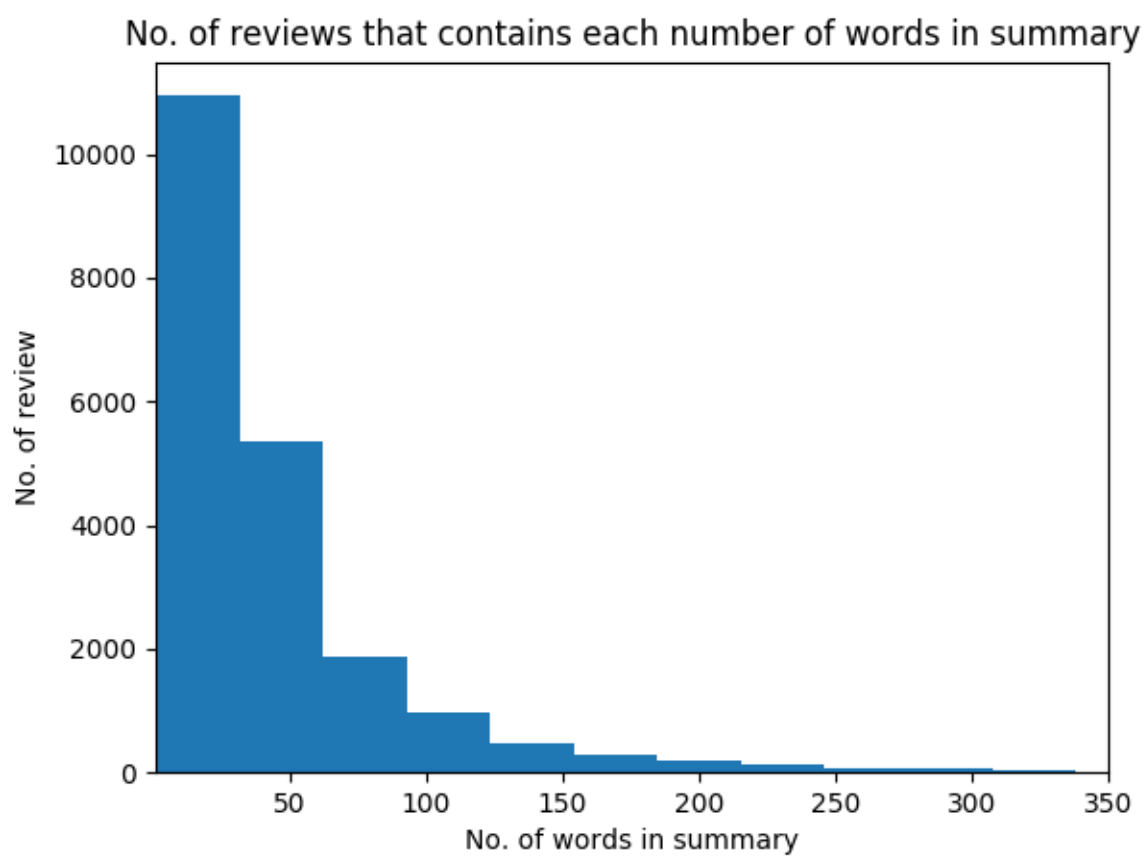




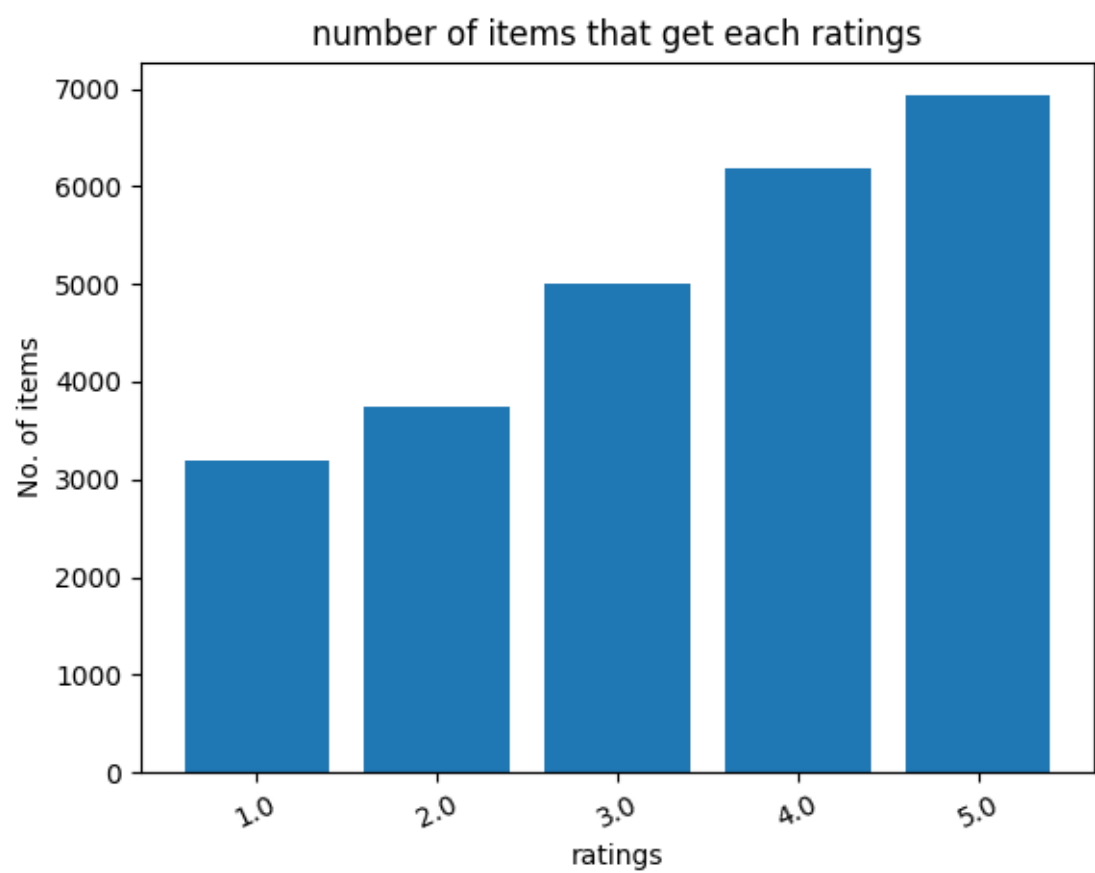


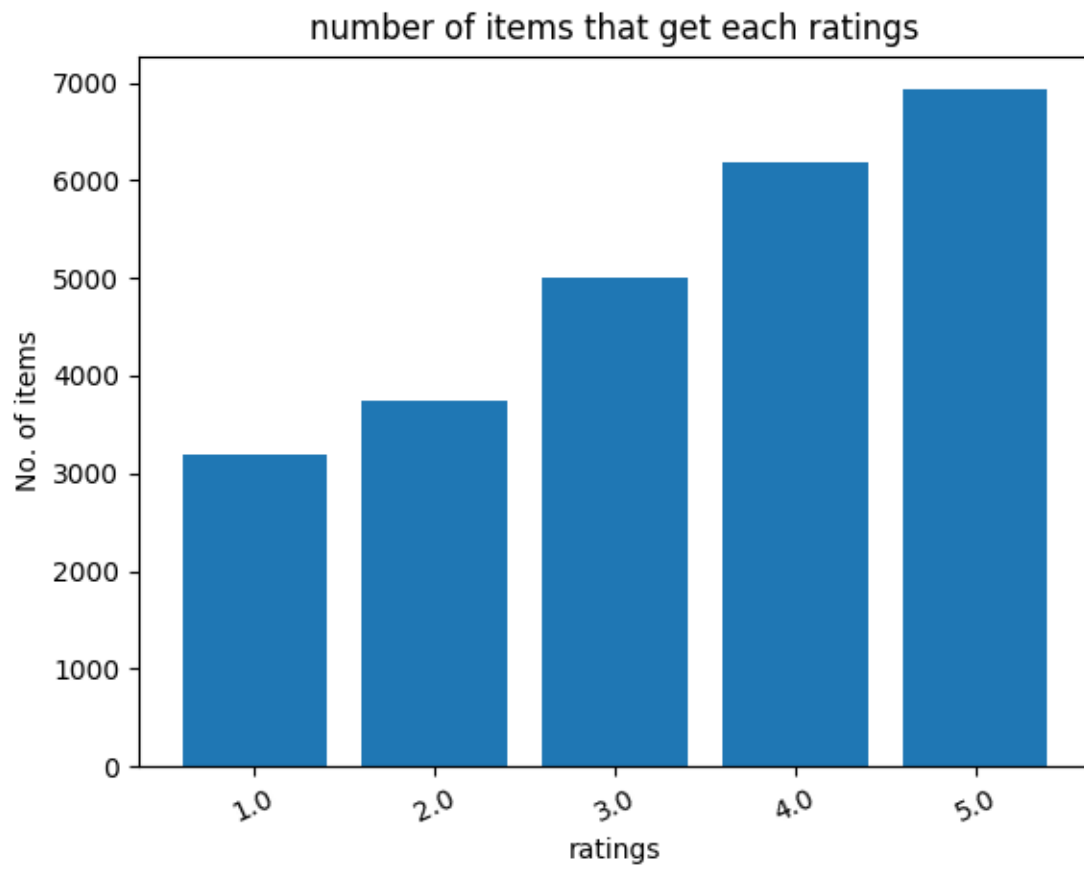


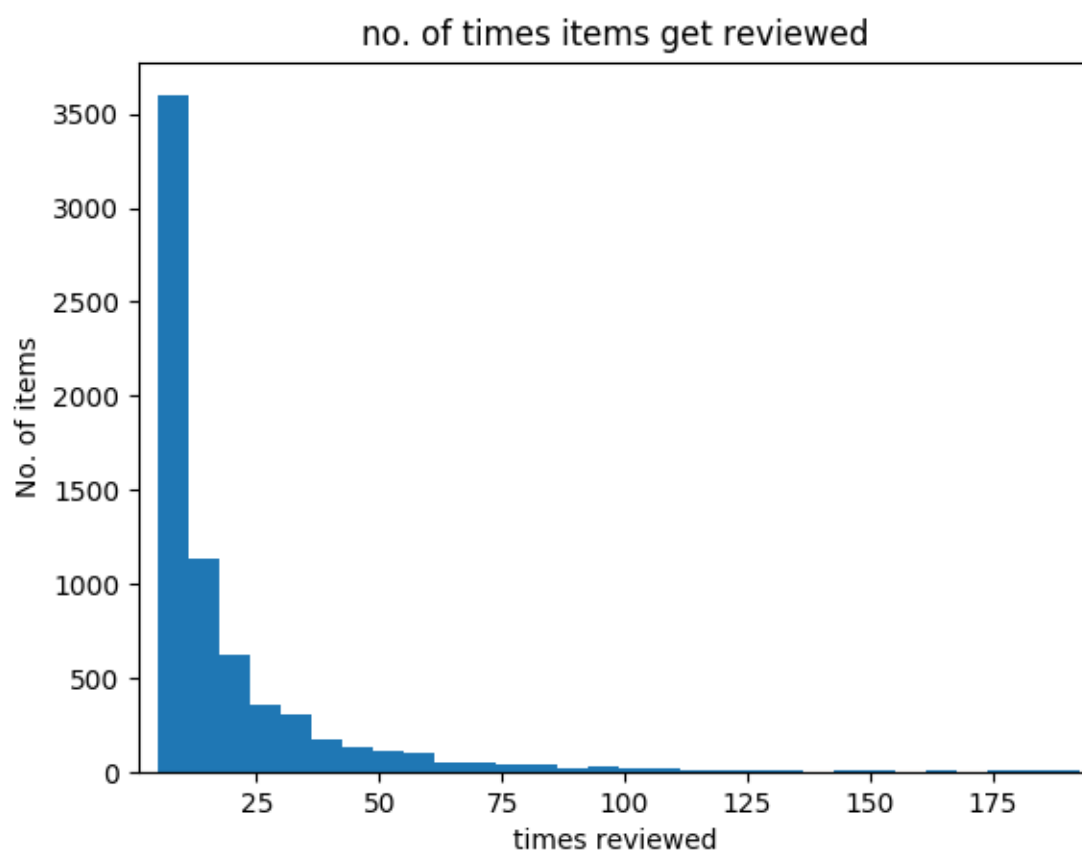


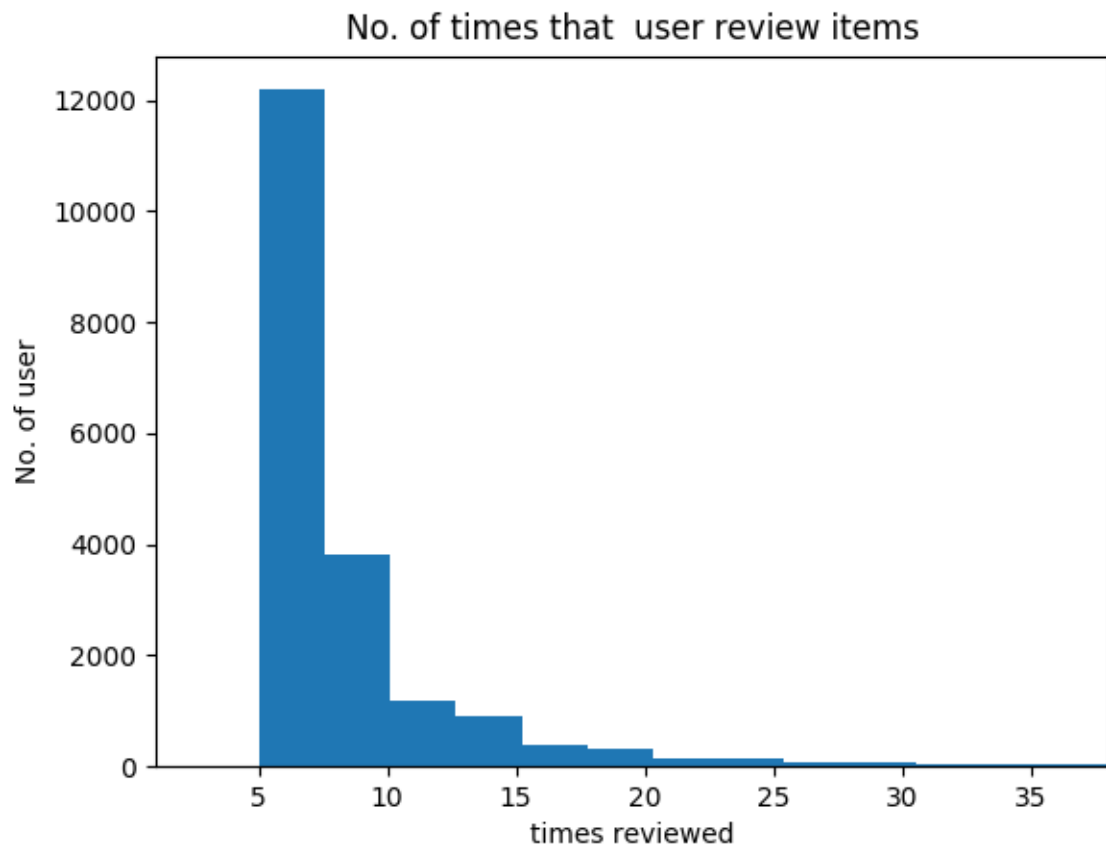


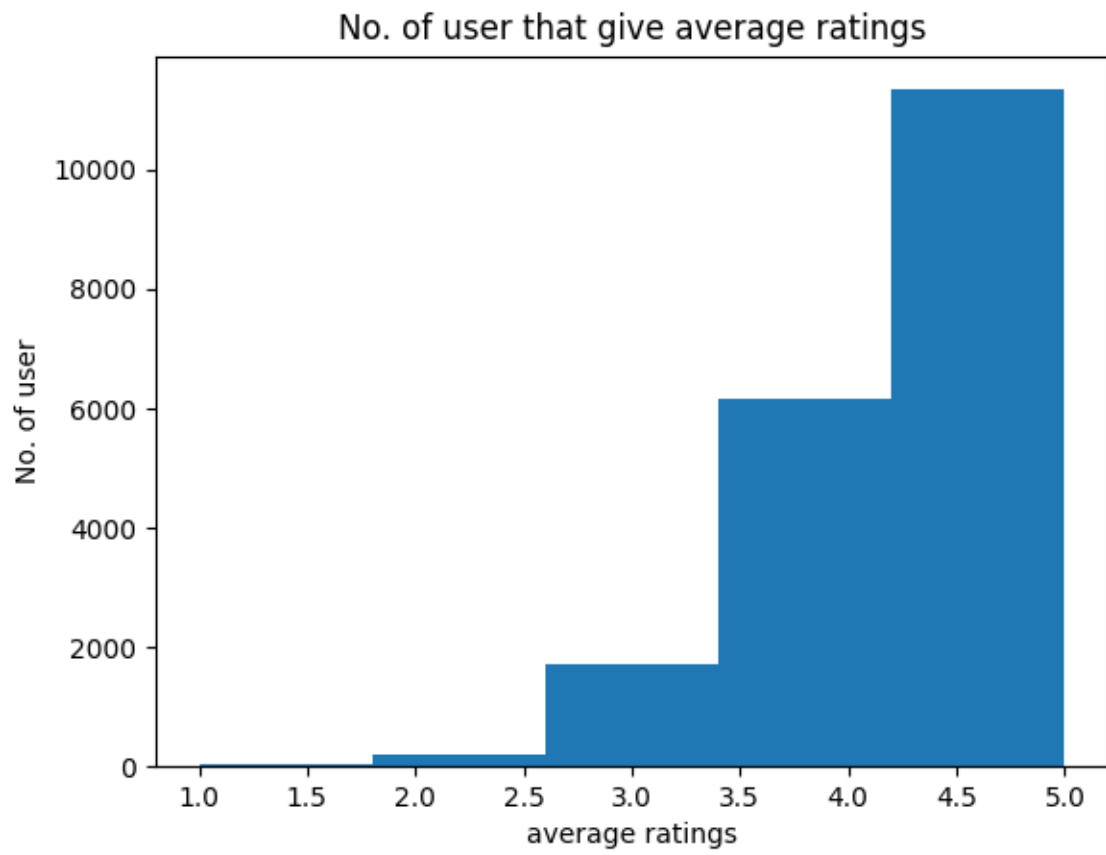
4)Baby

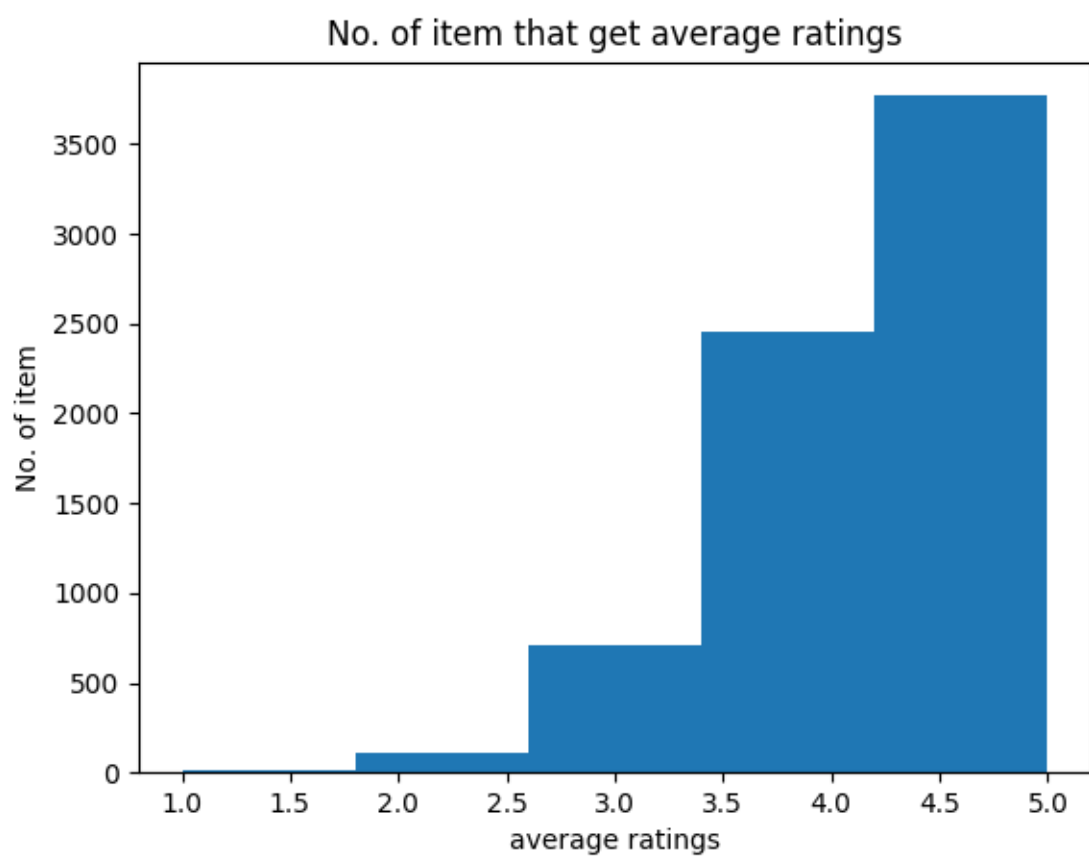


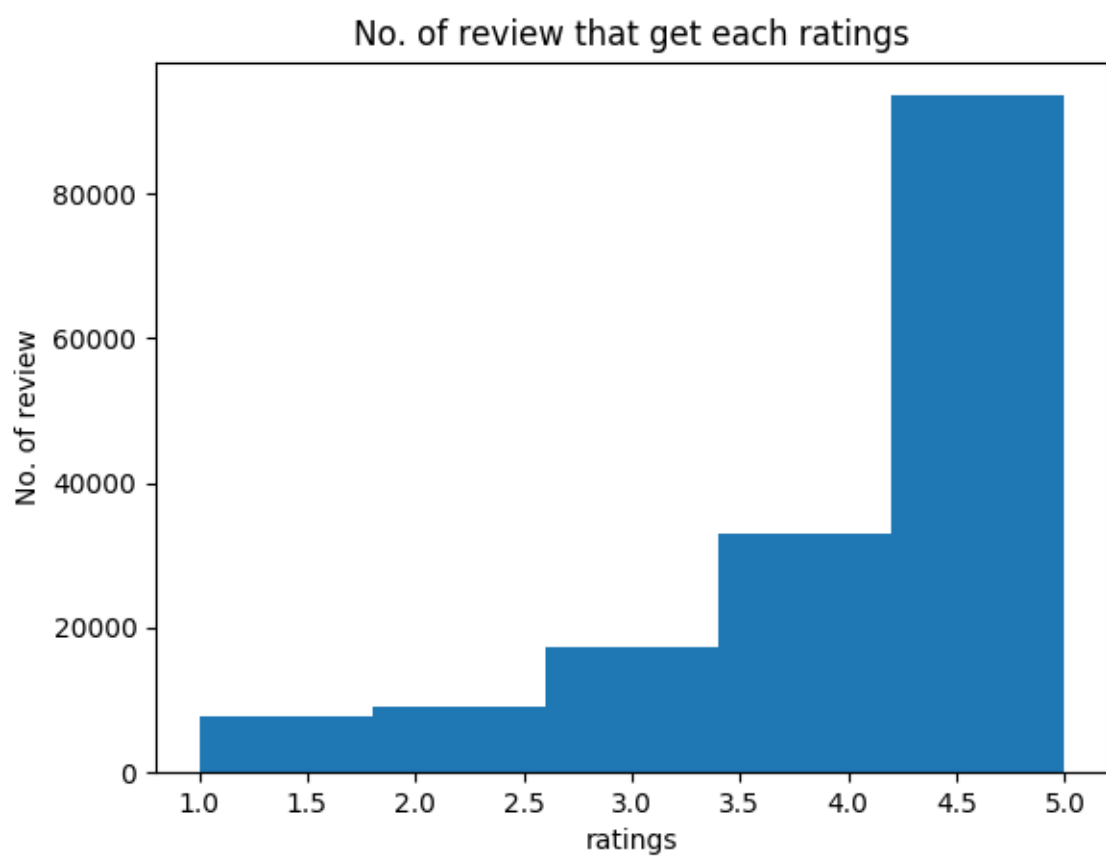


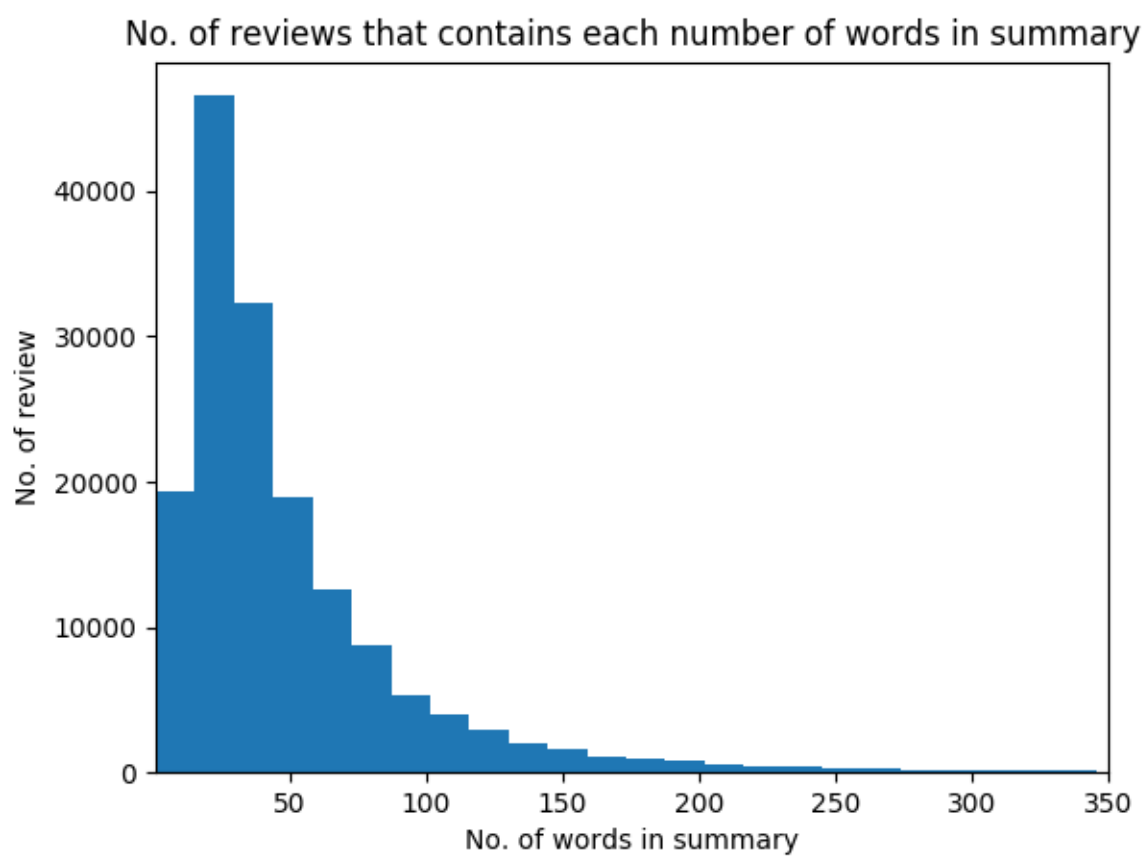




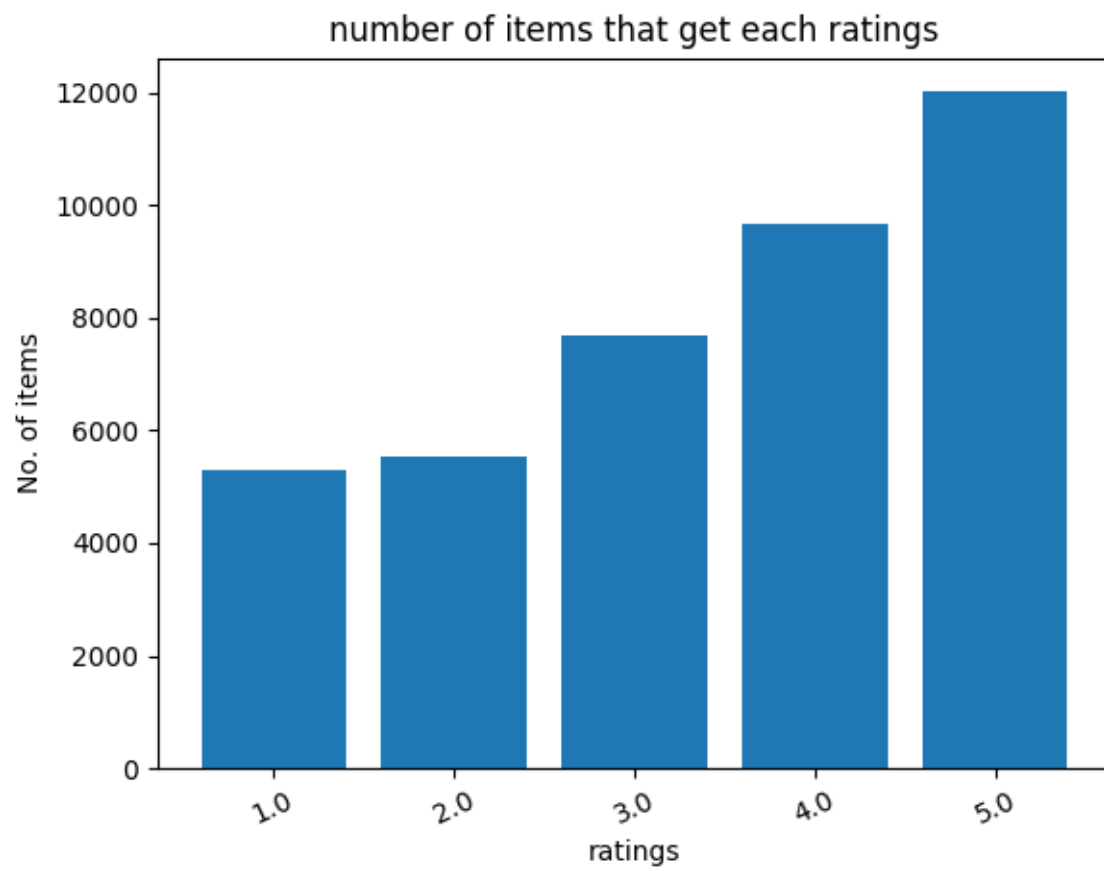


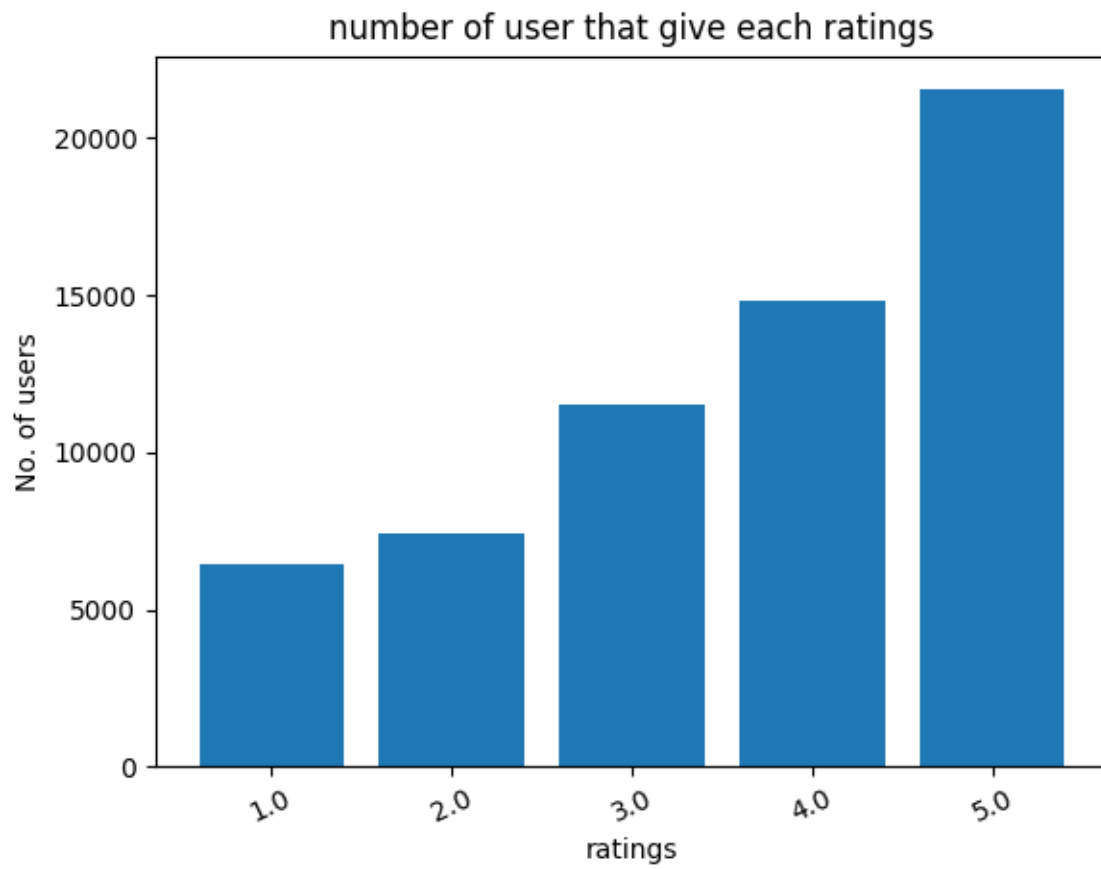


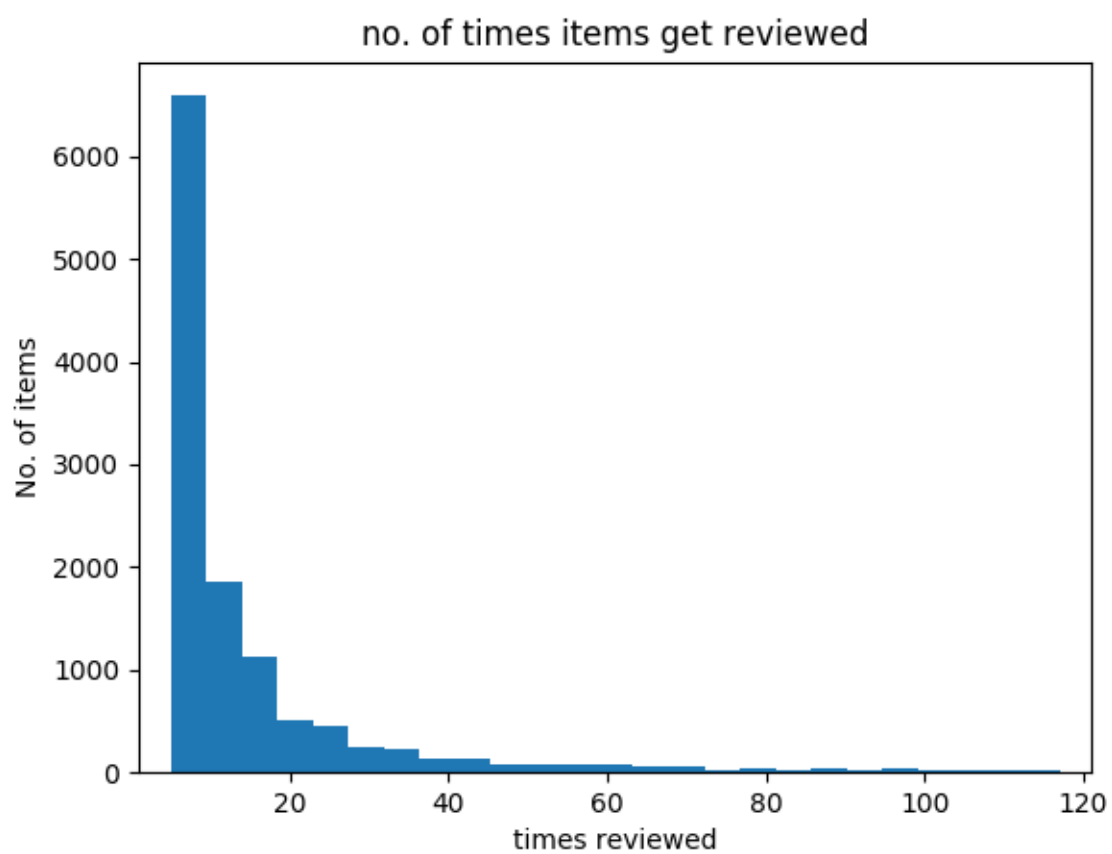


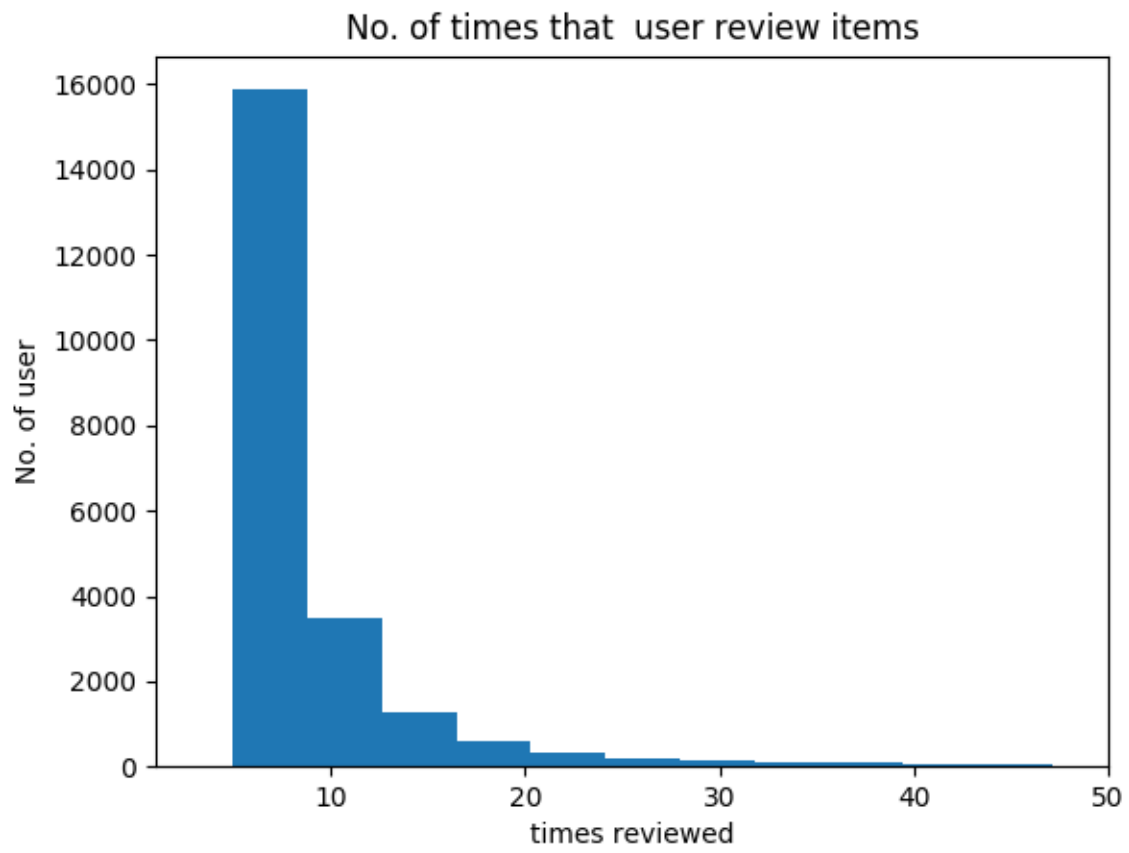


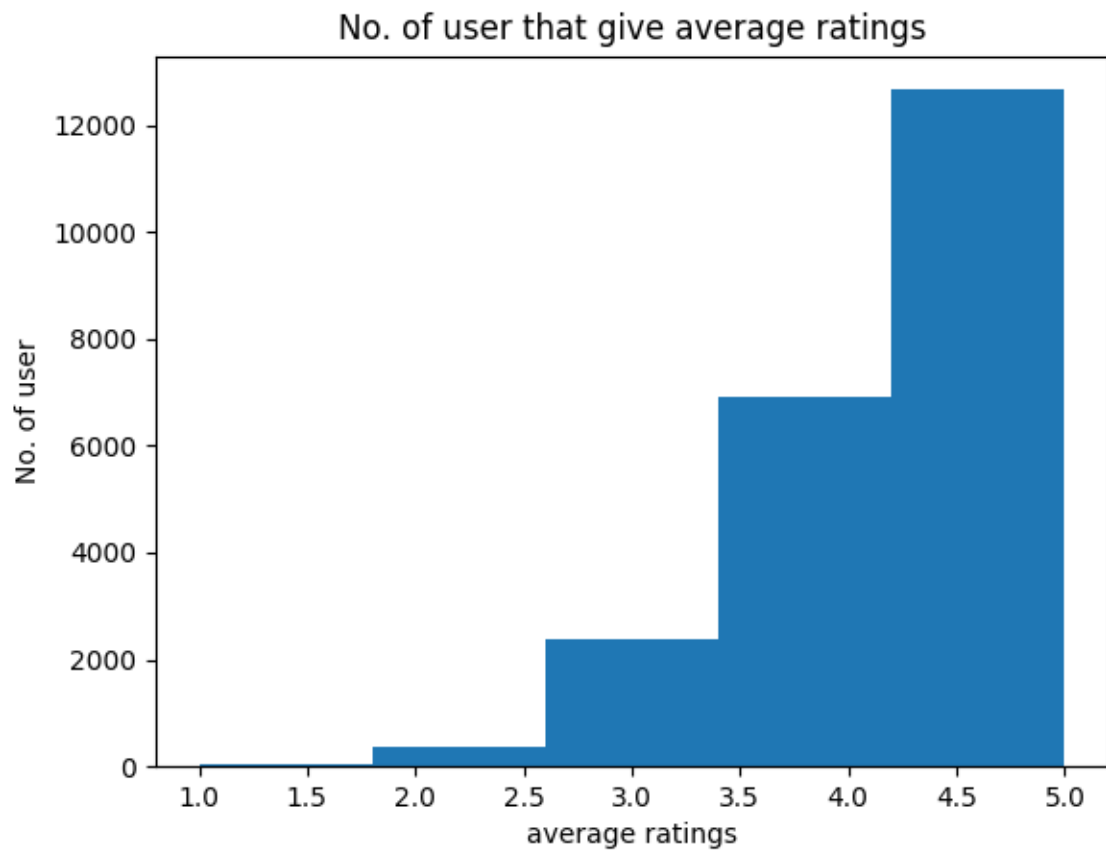
5)Beauty

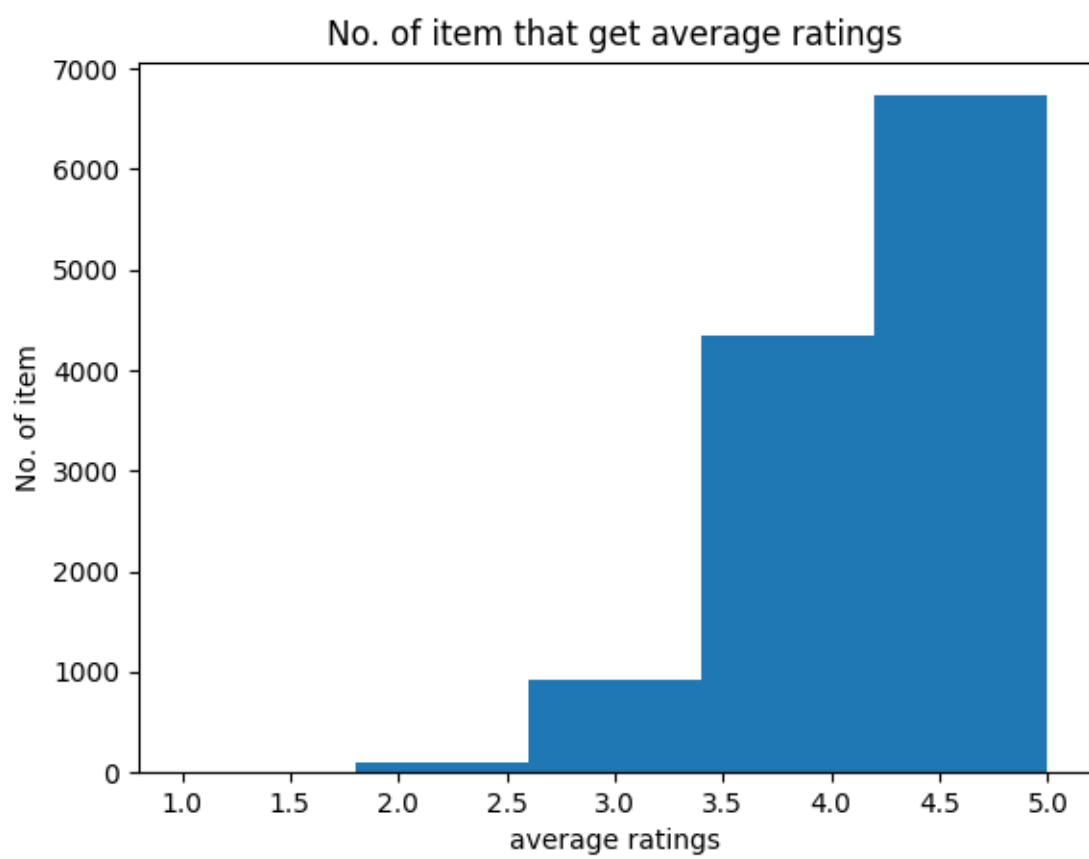


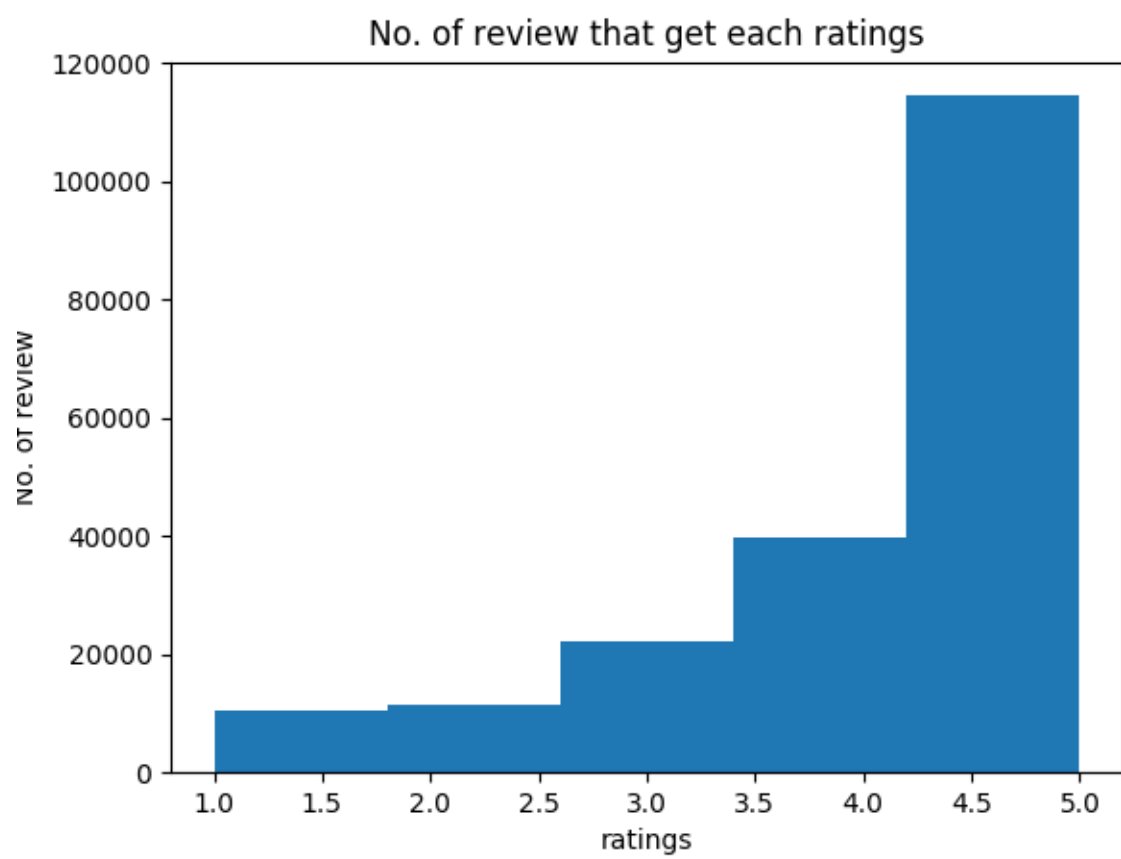


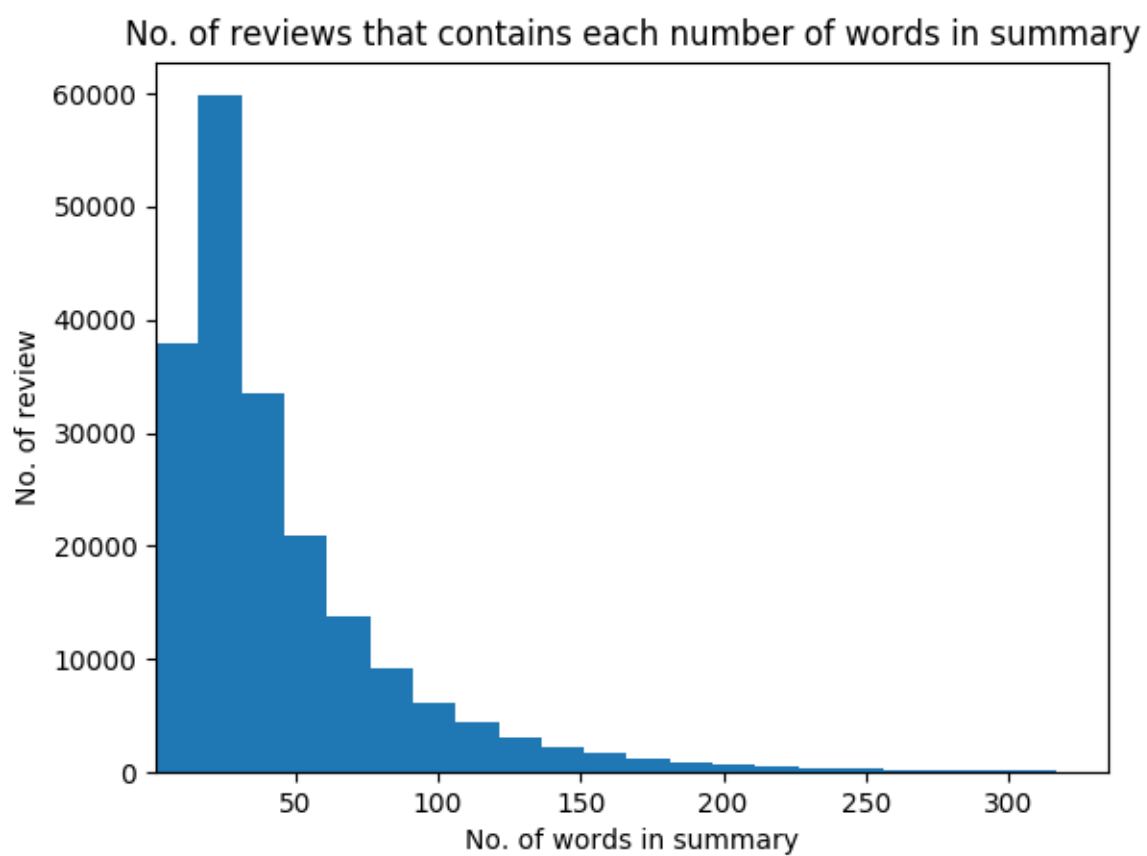




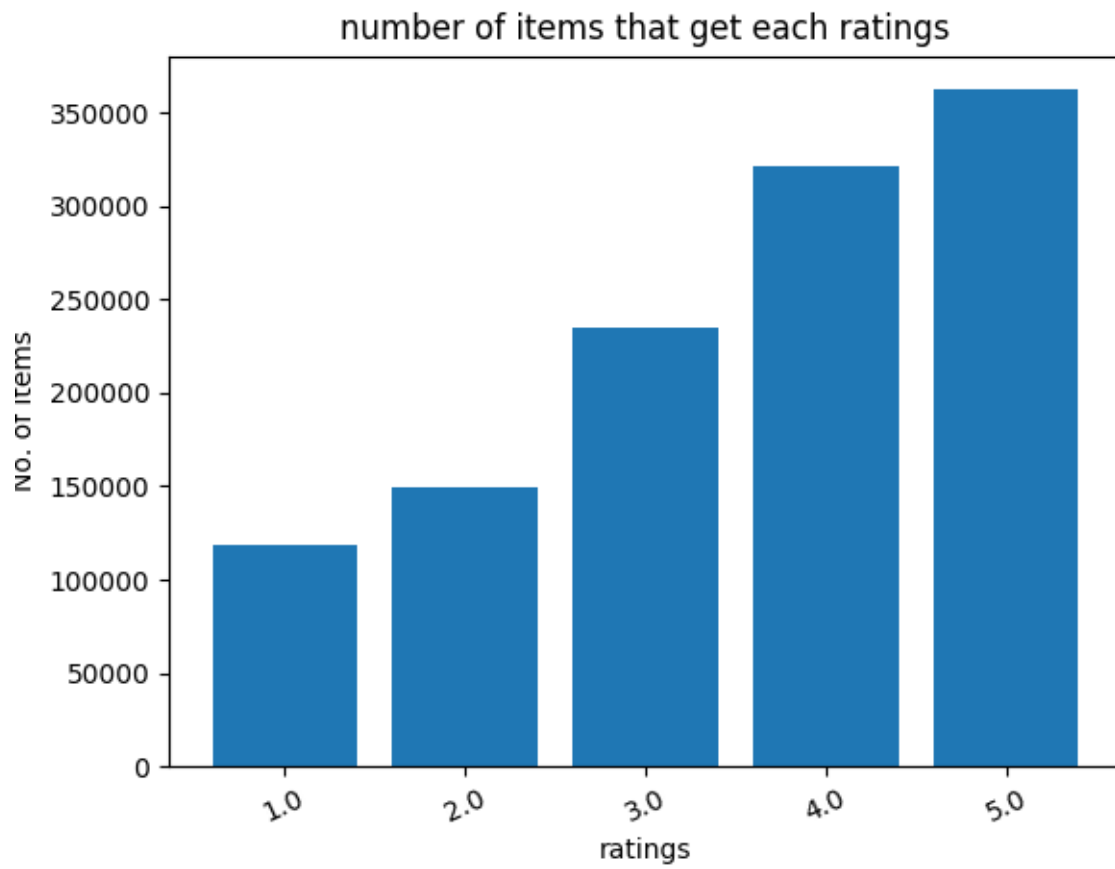


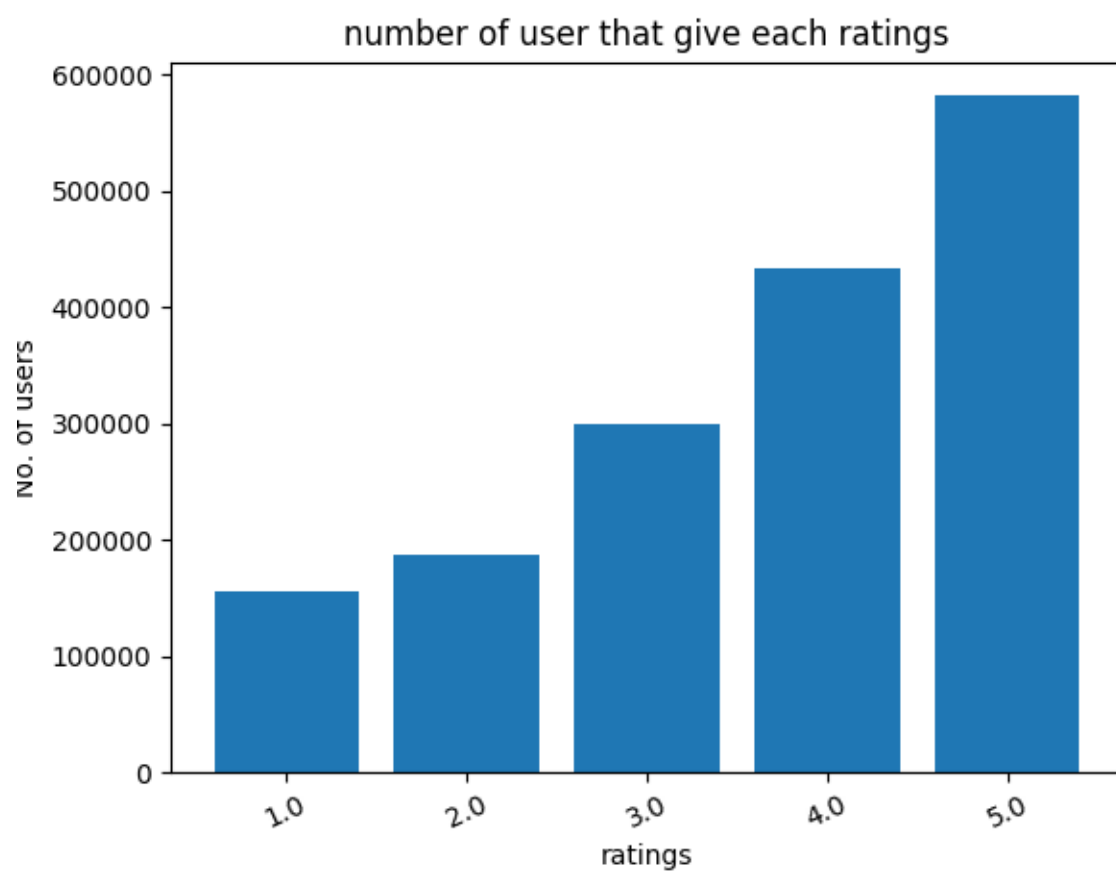


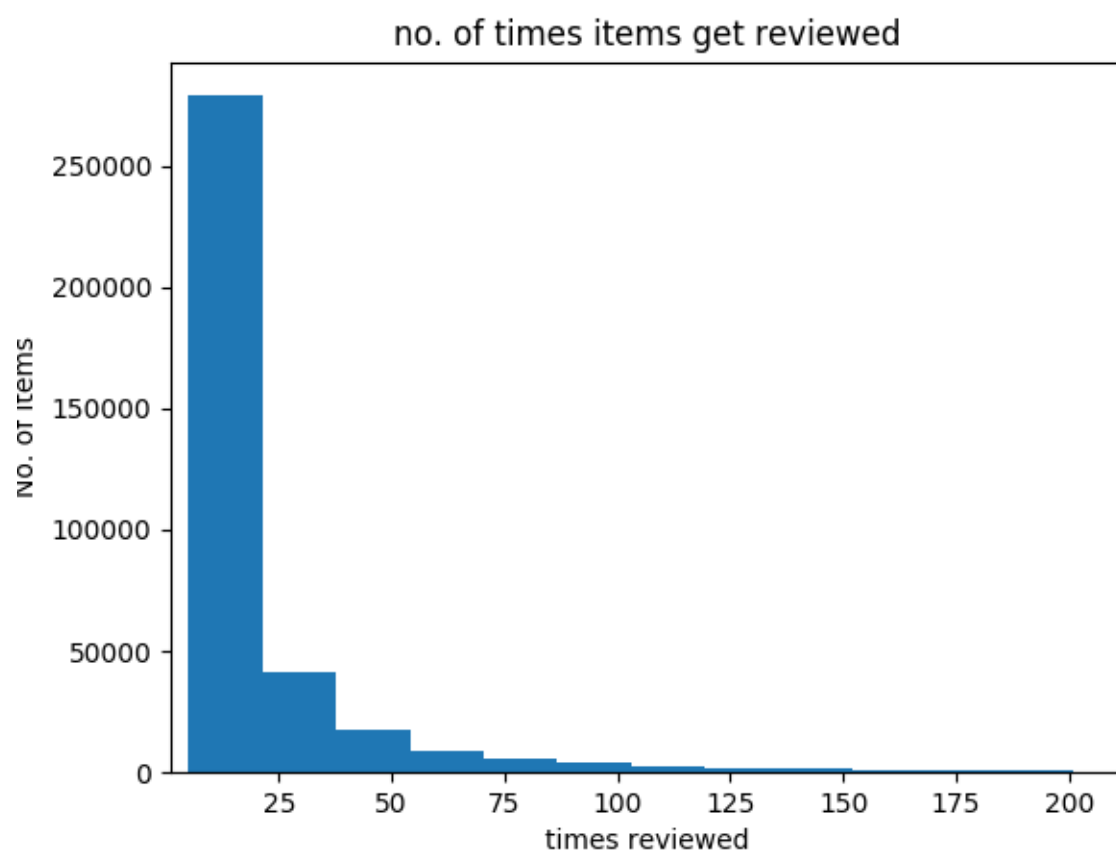


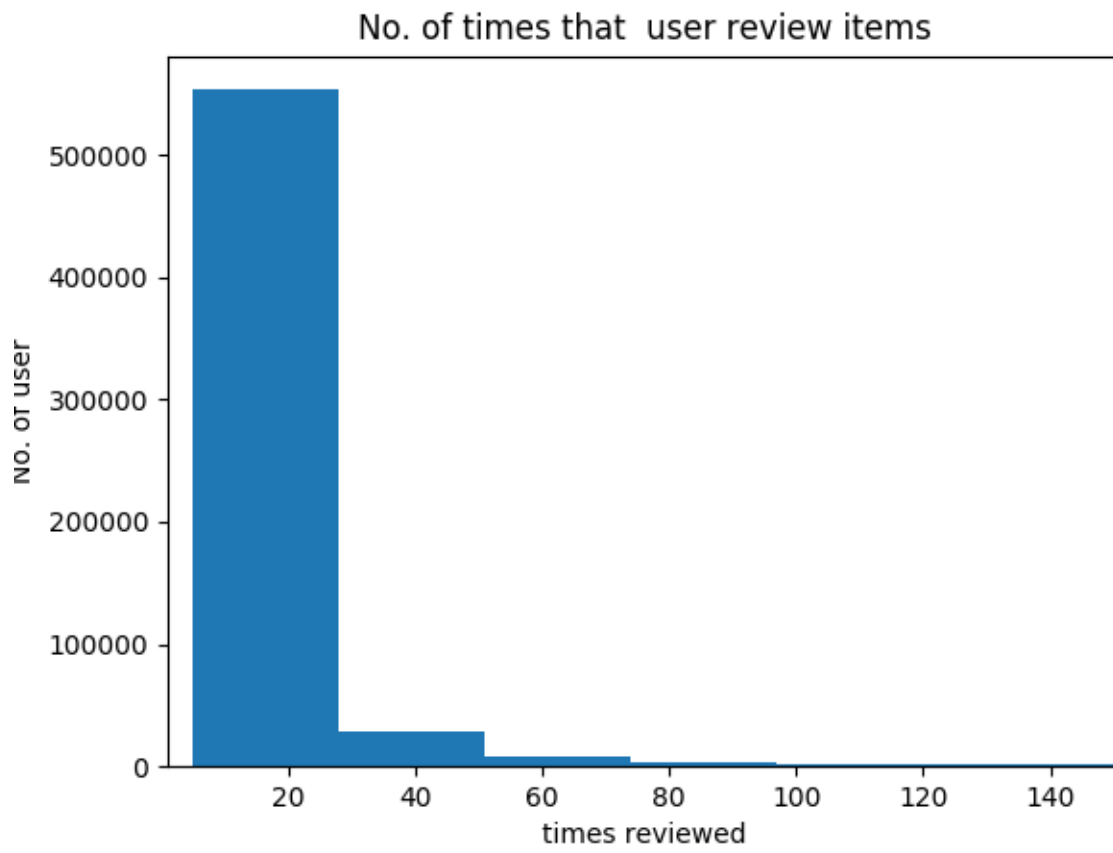


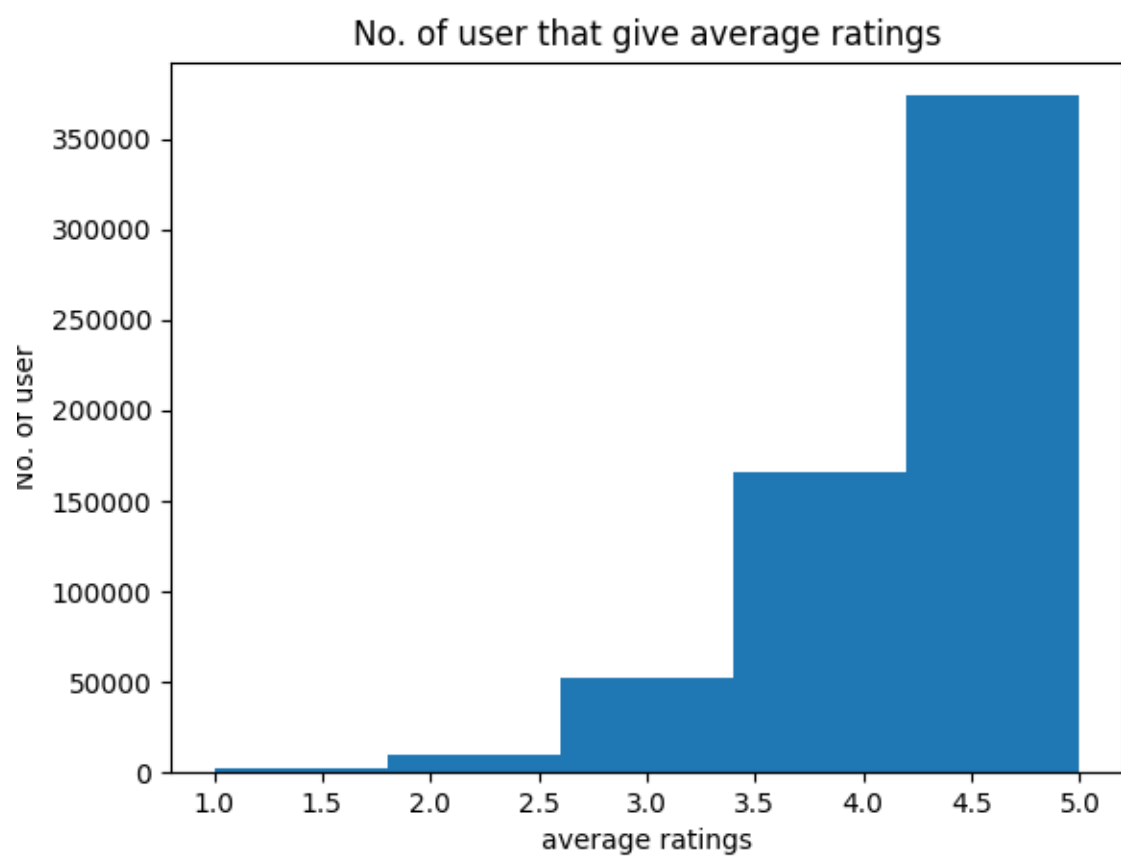
6)Books

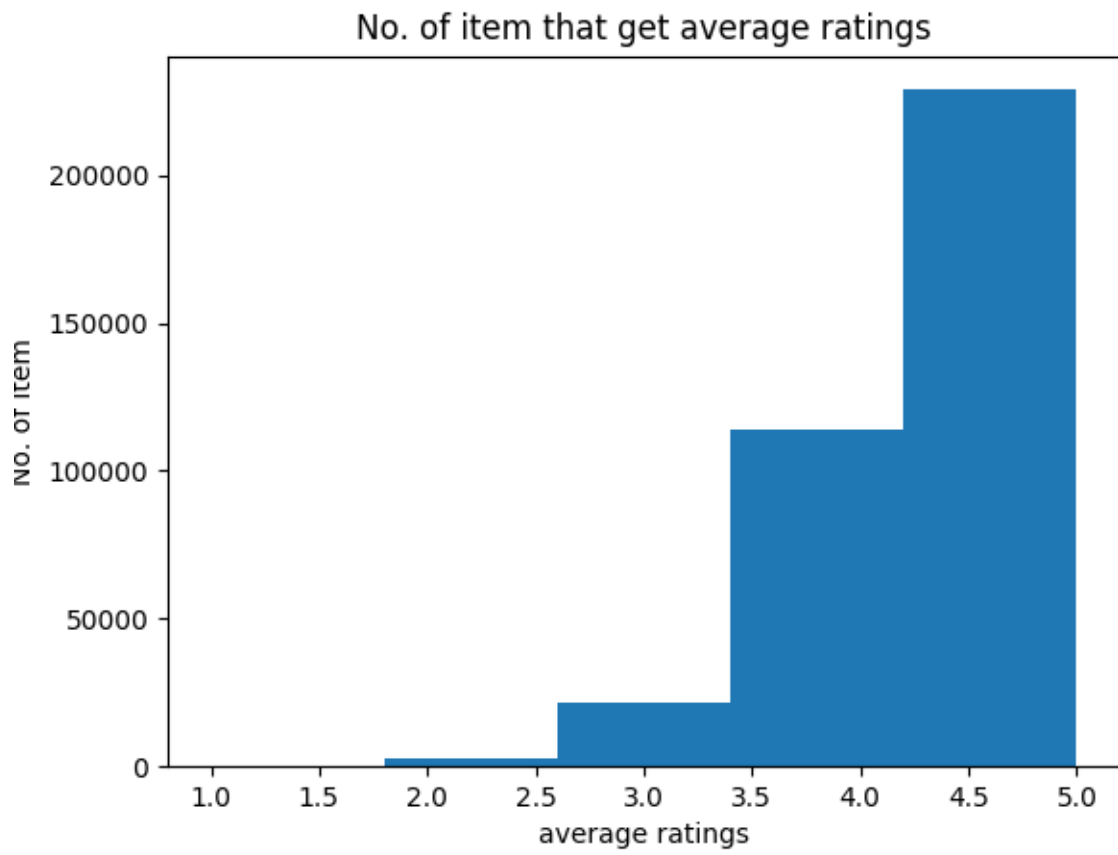


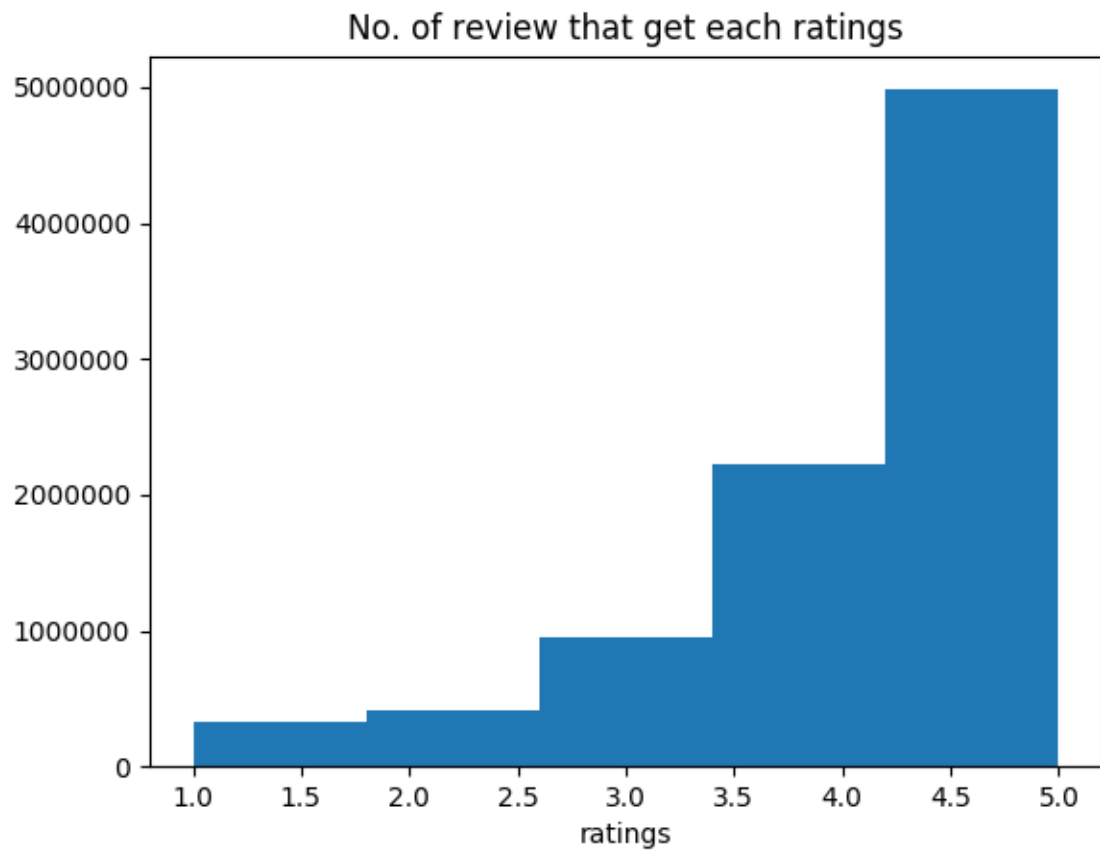


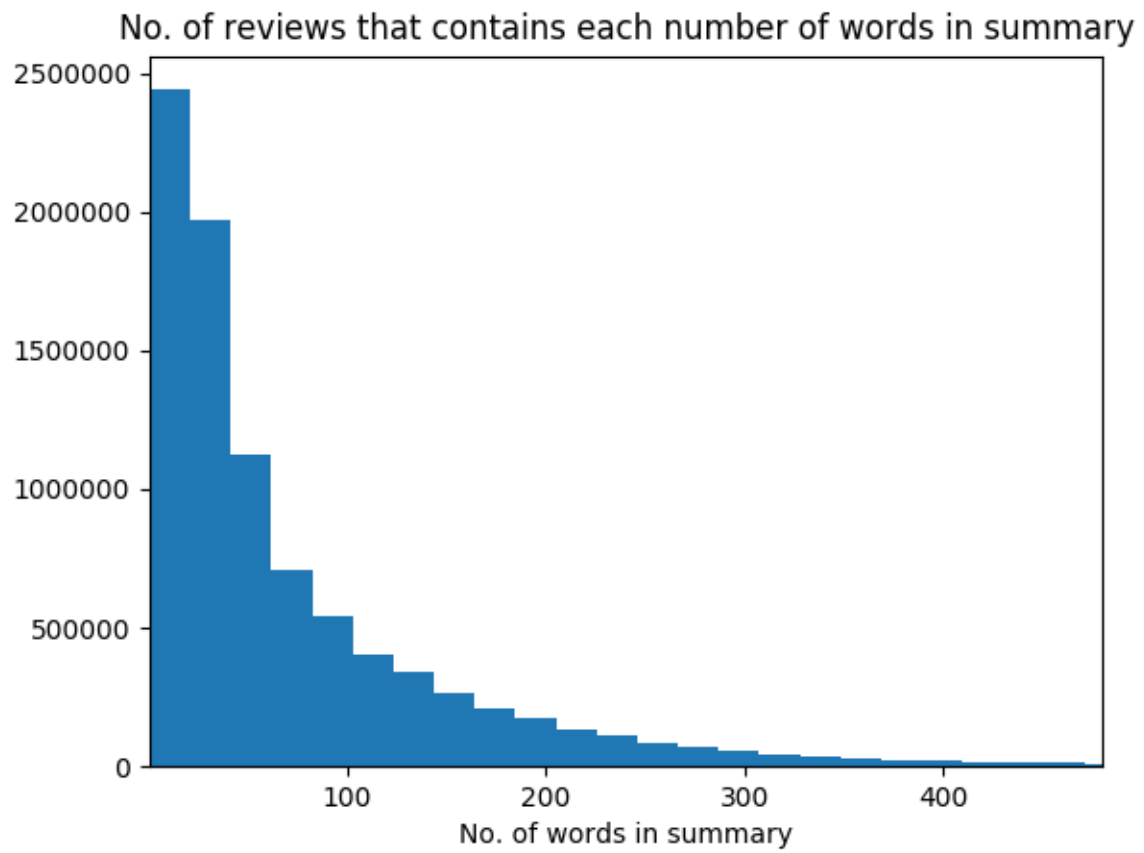




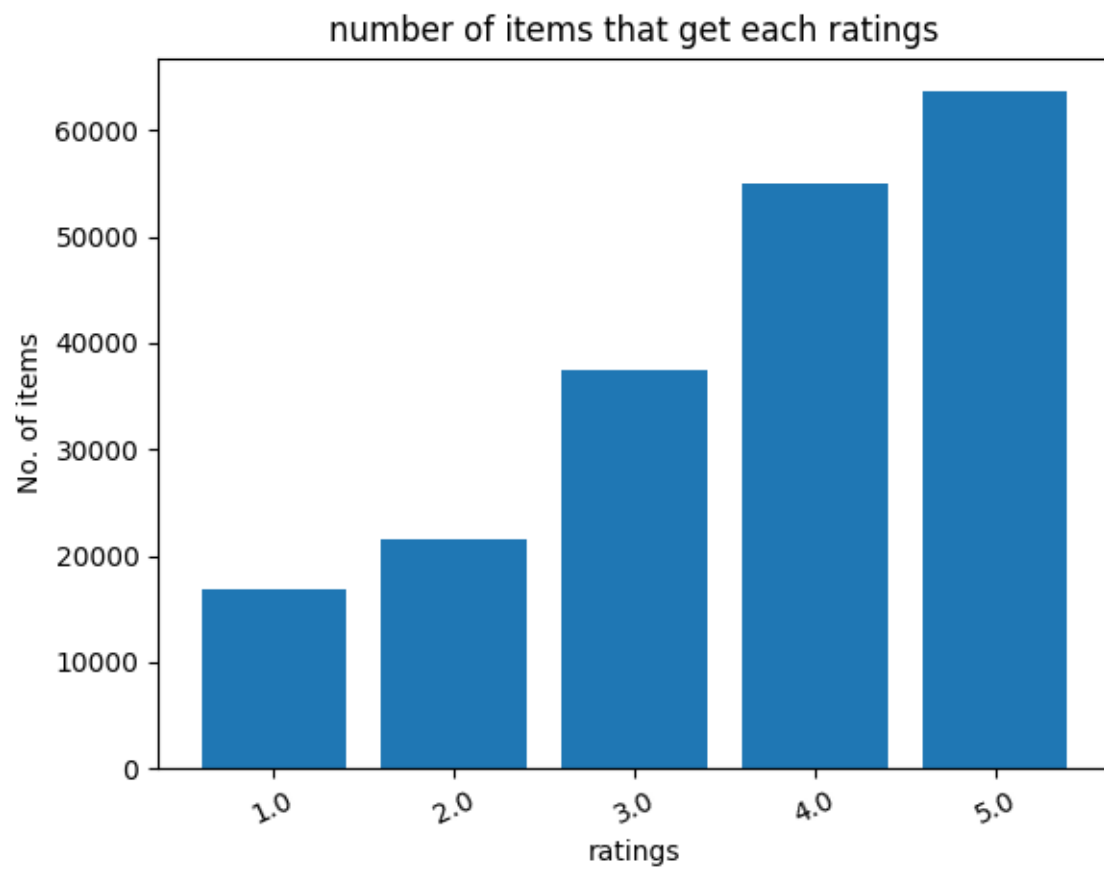


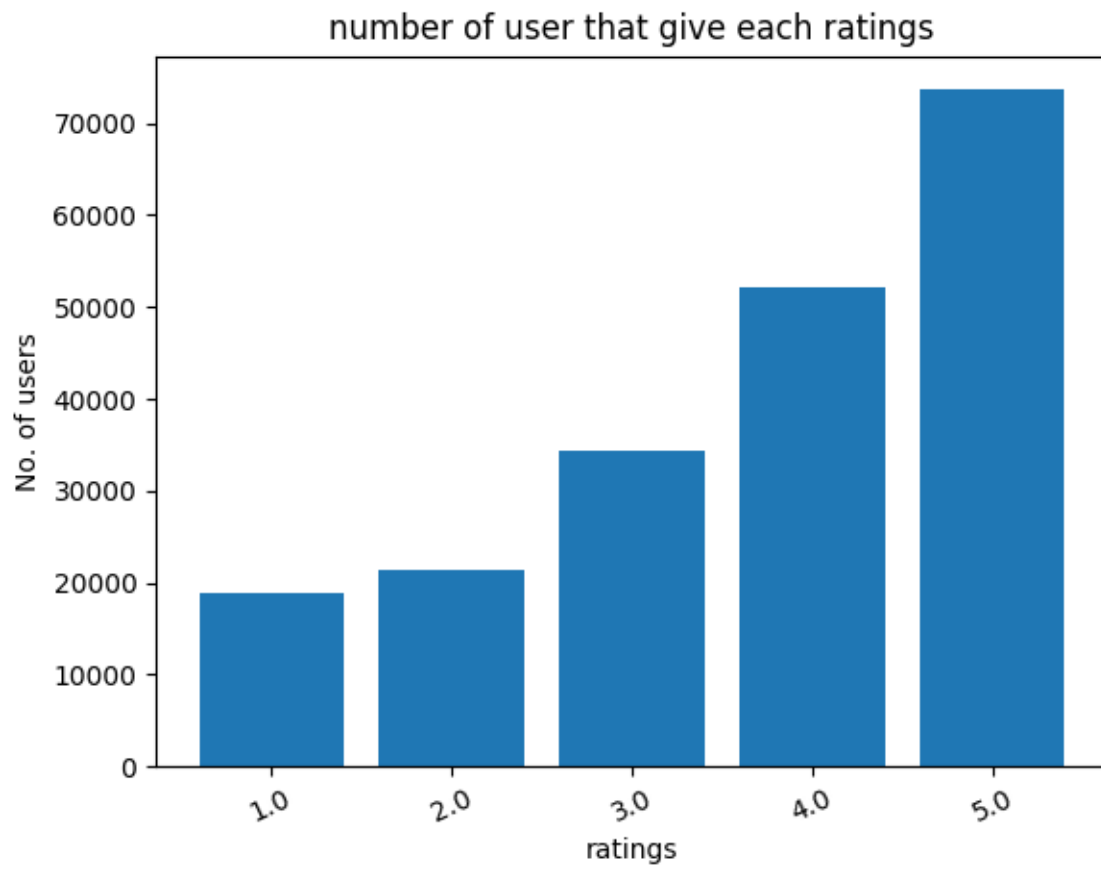


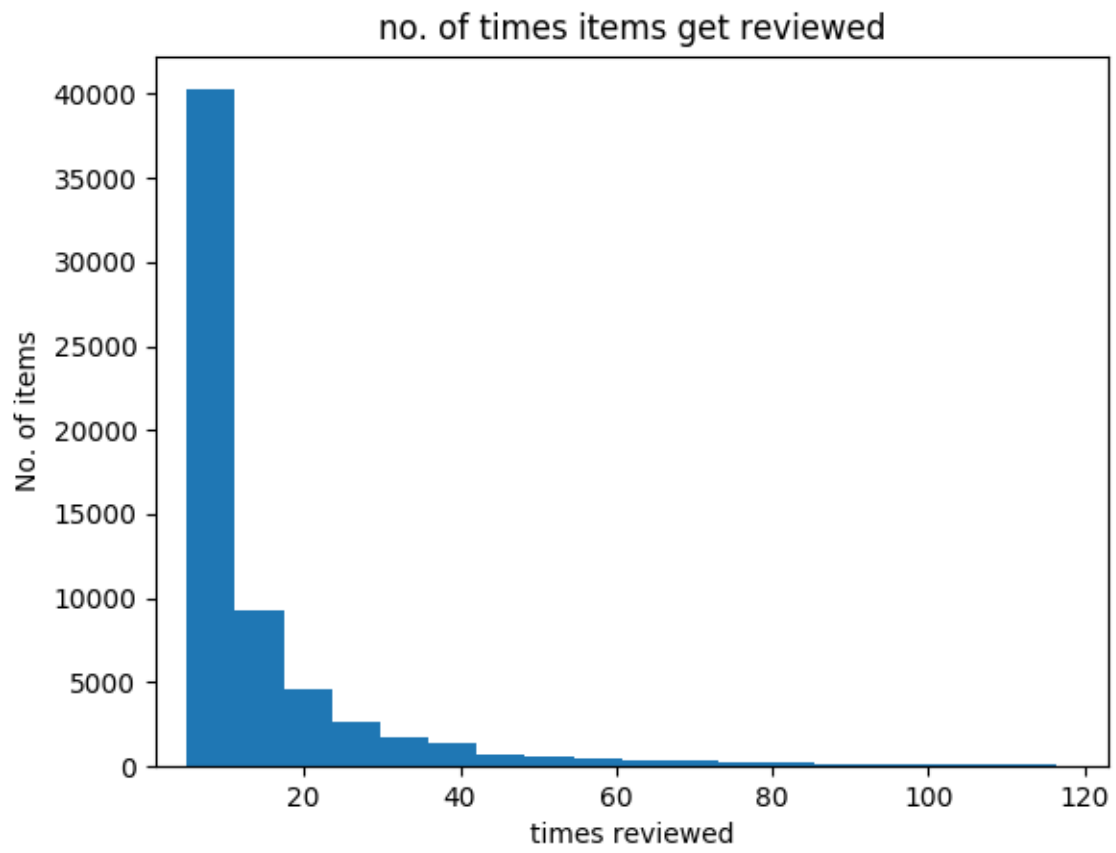


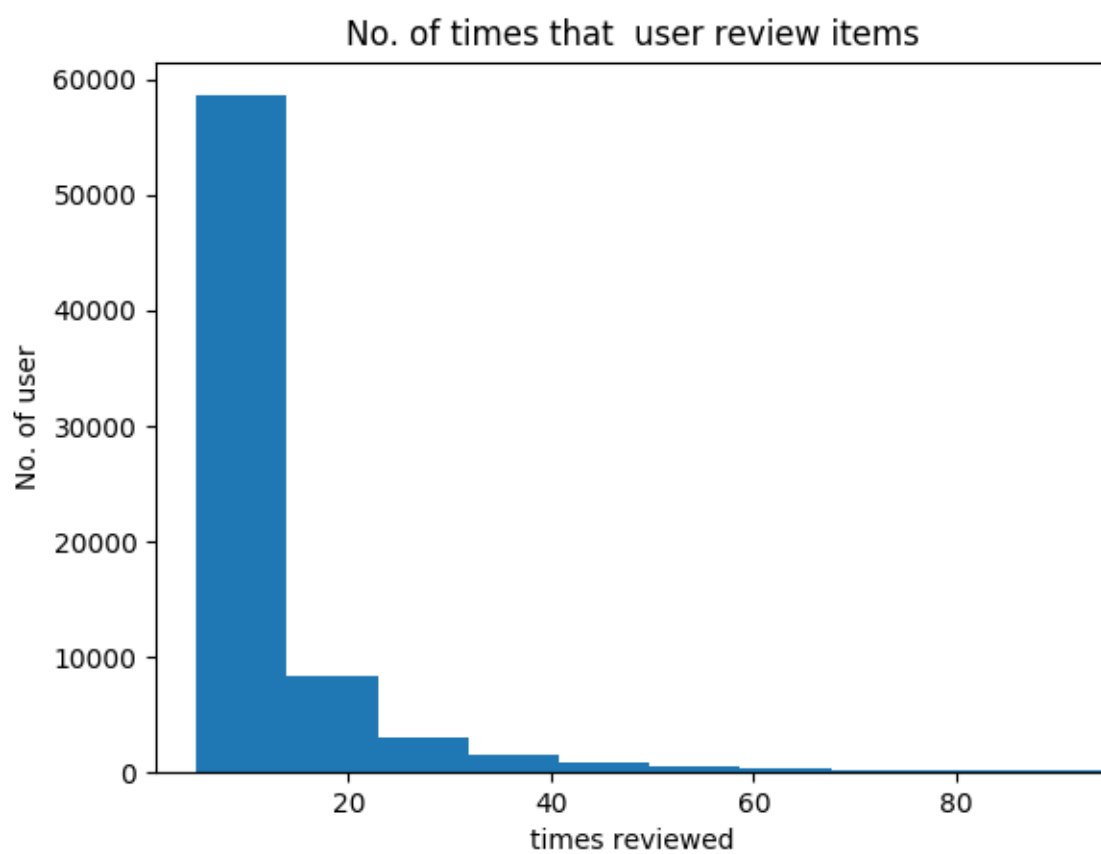


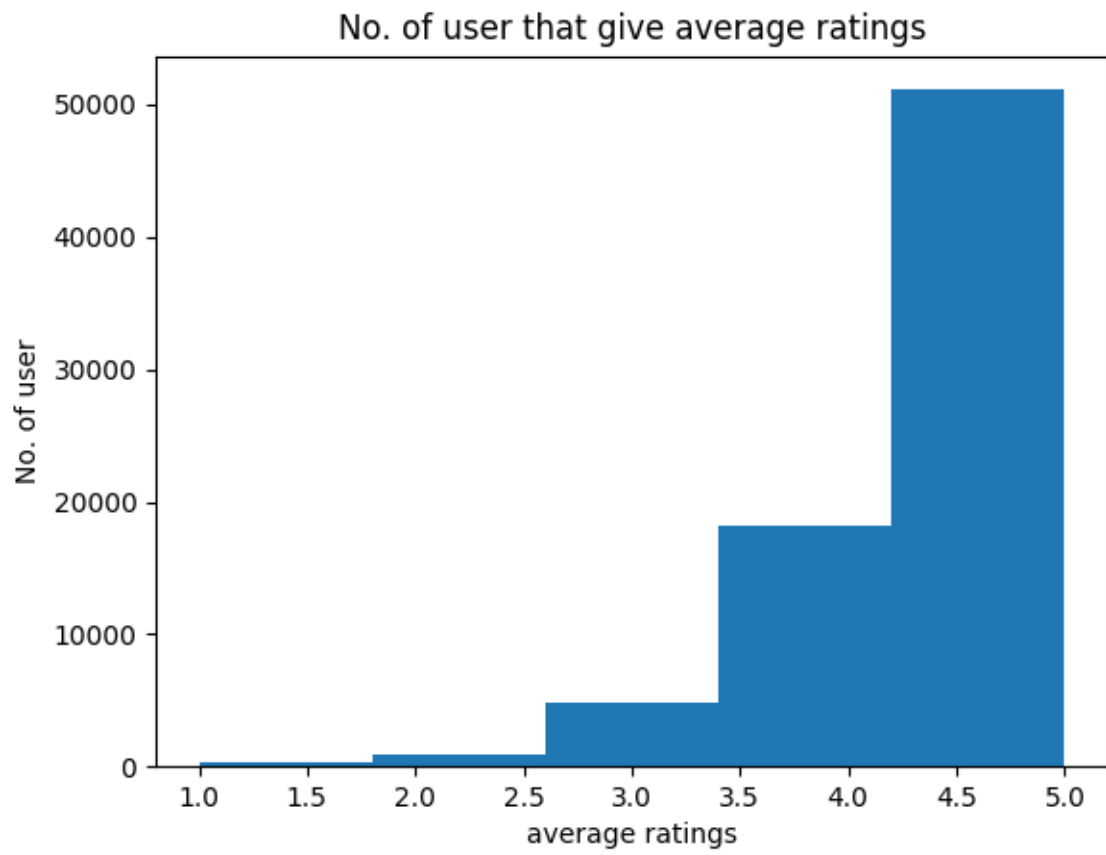
7)CDs and vinyl

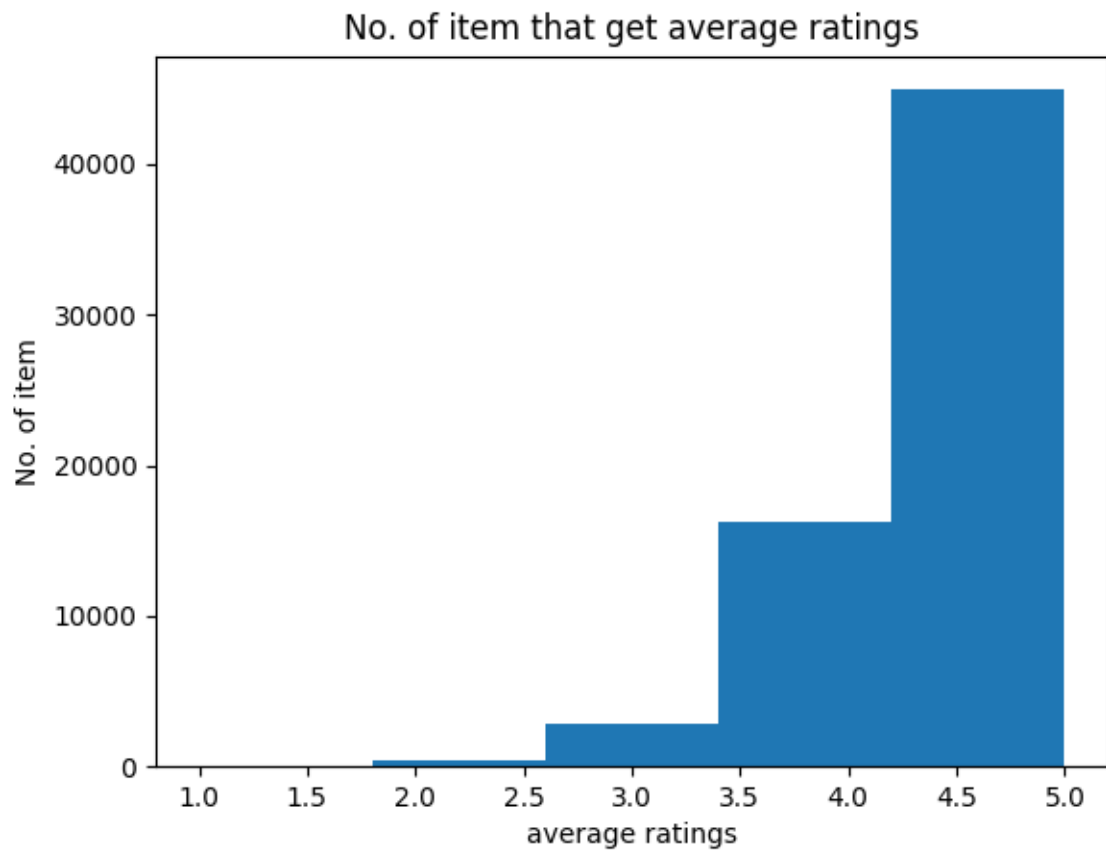


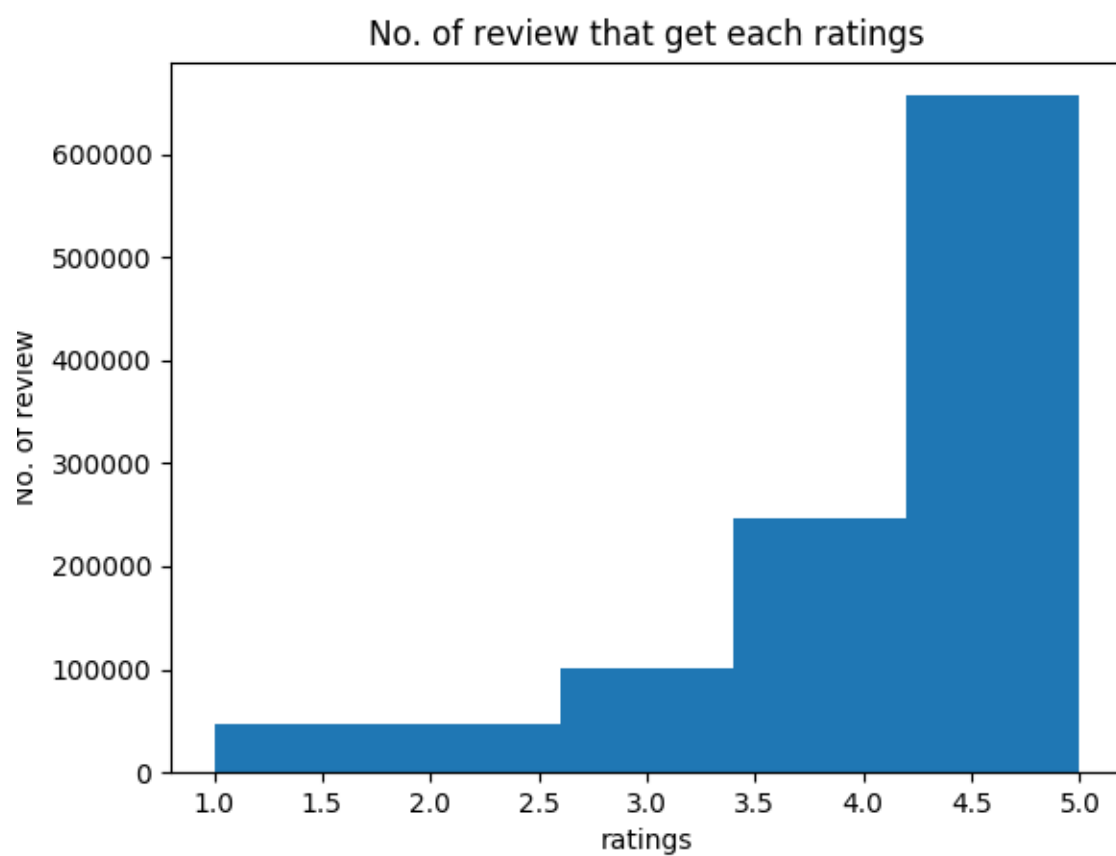


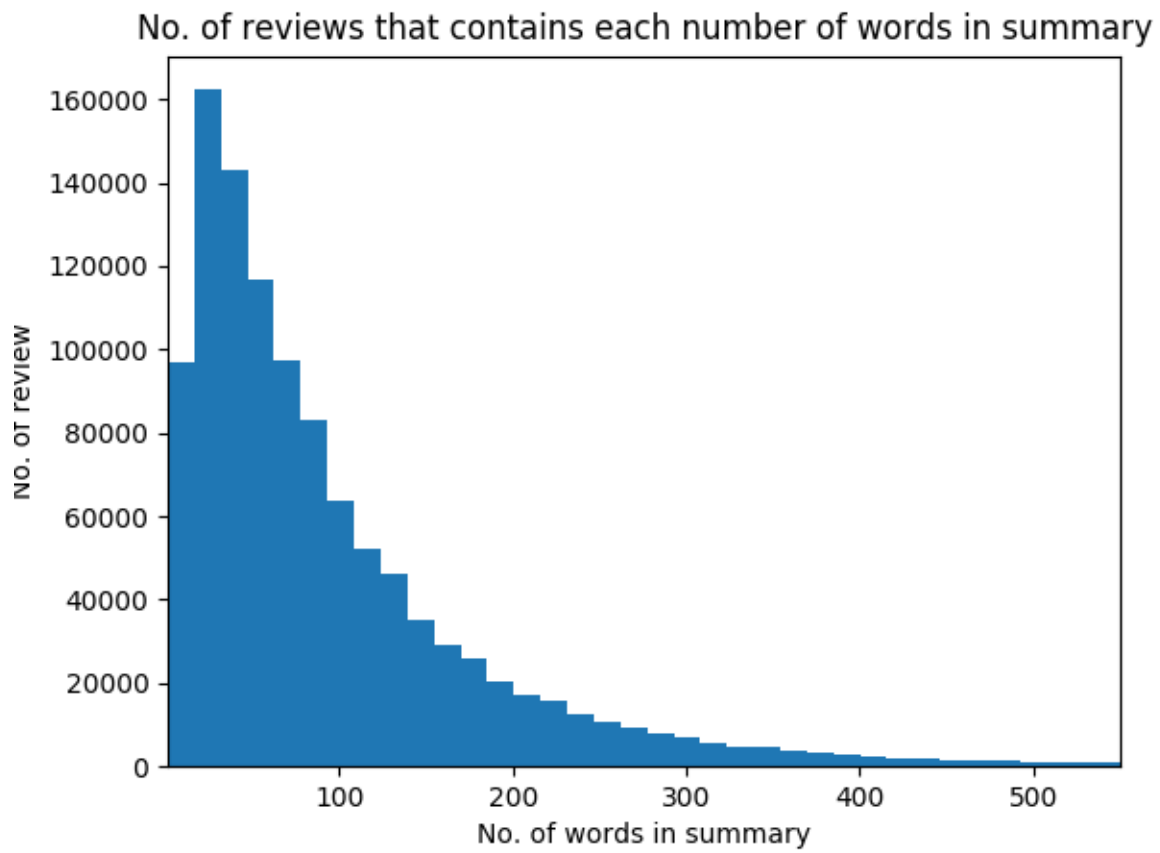




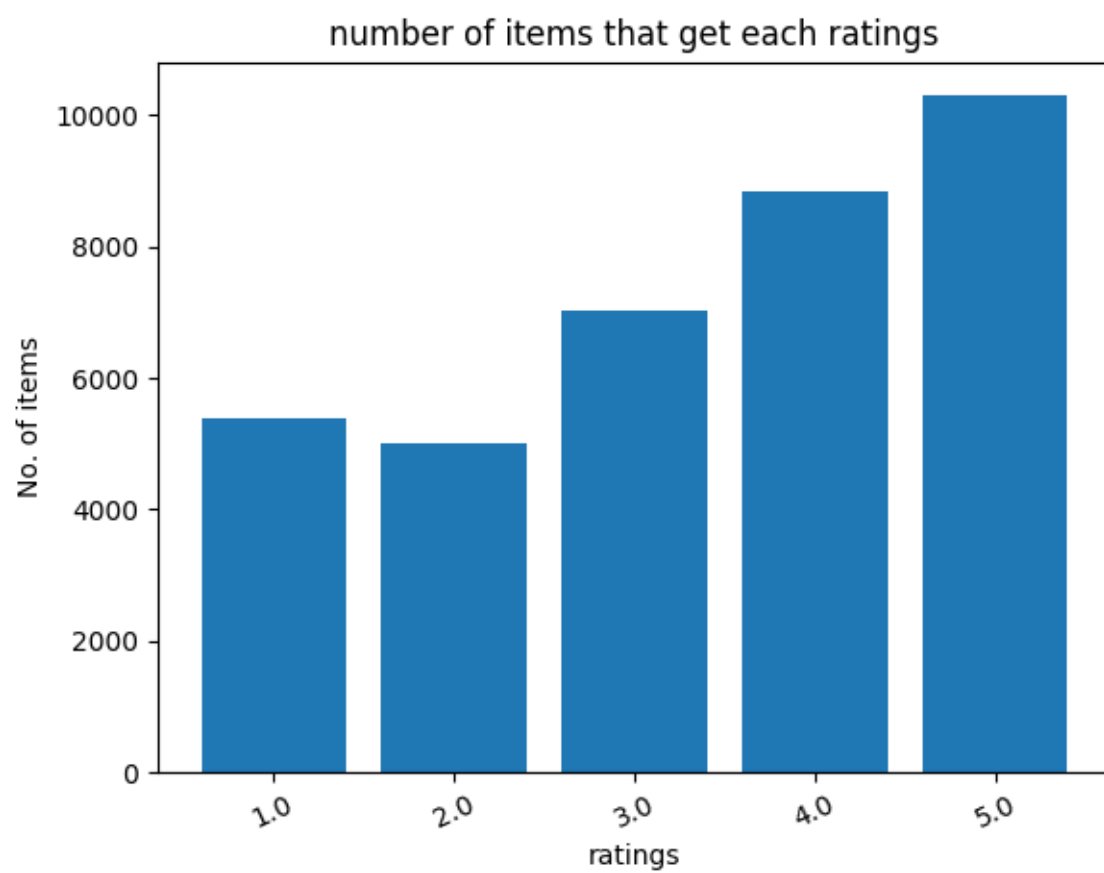


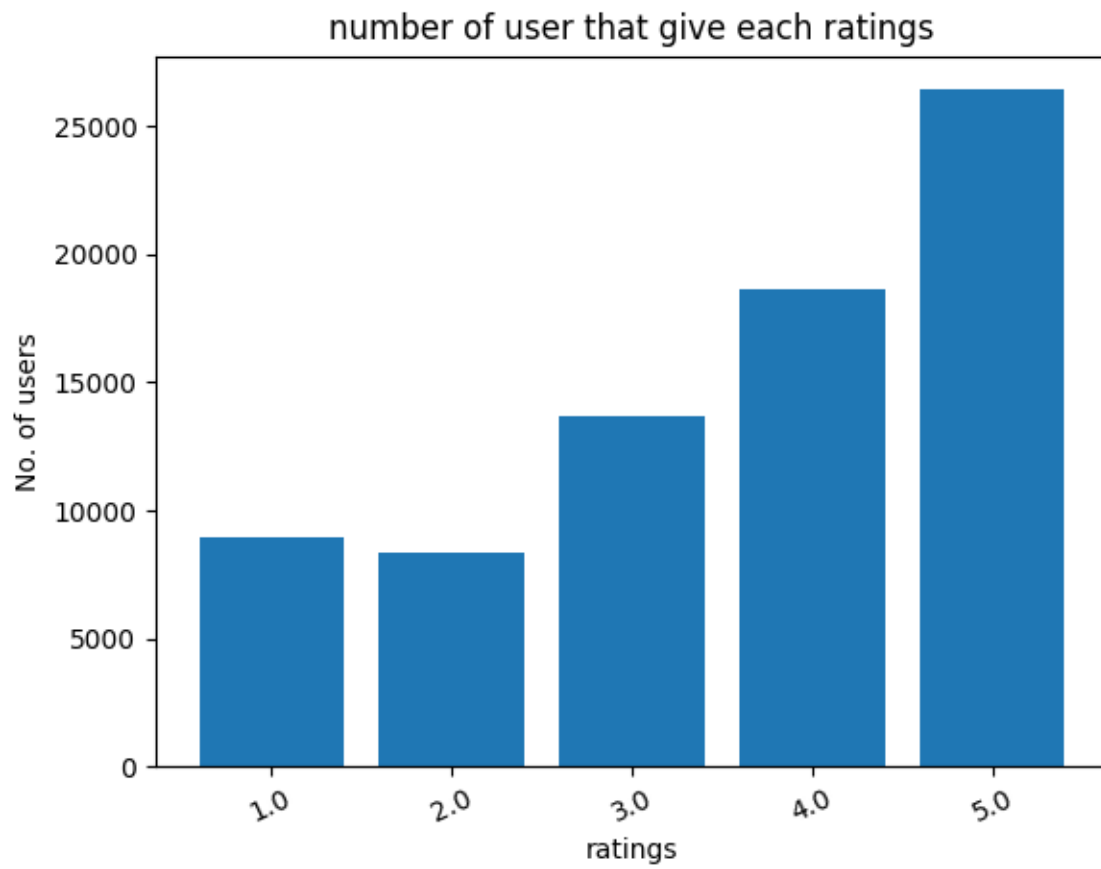


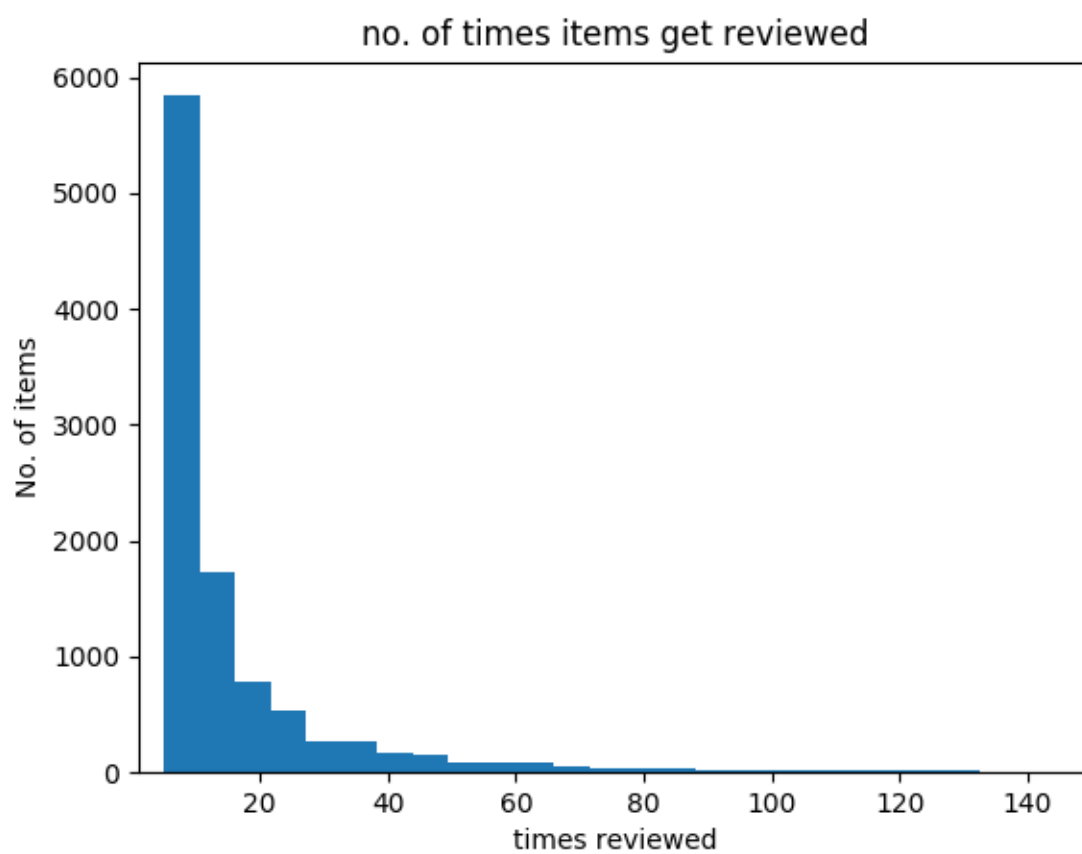


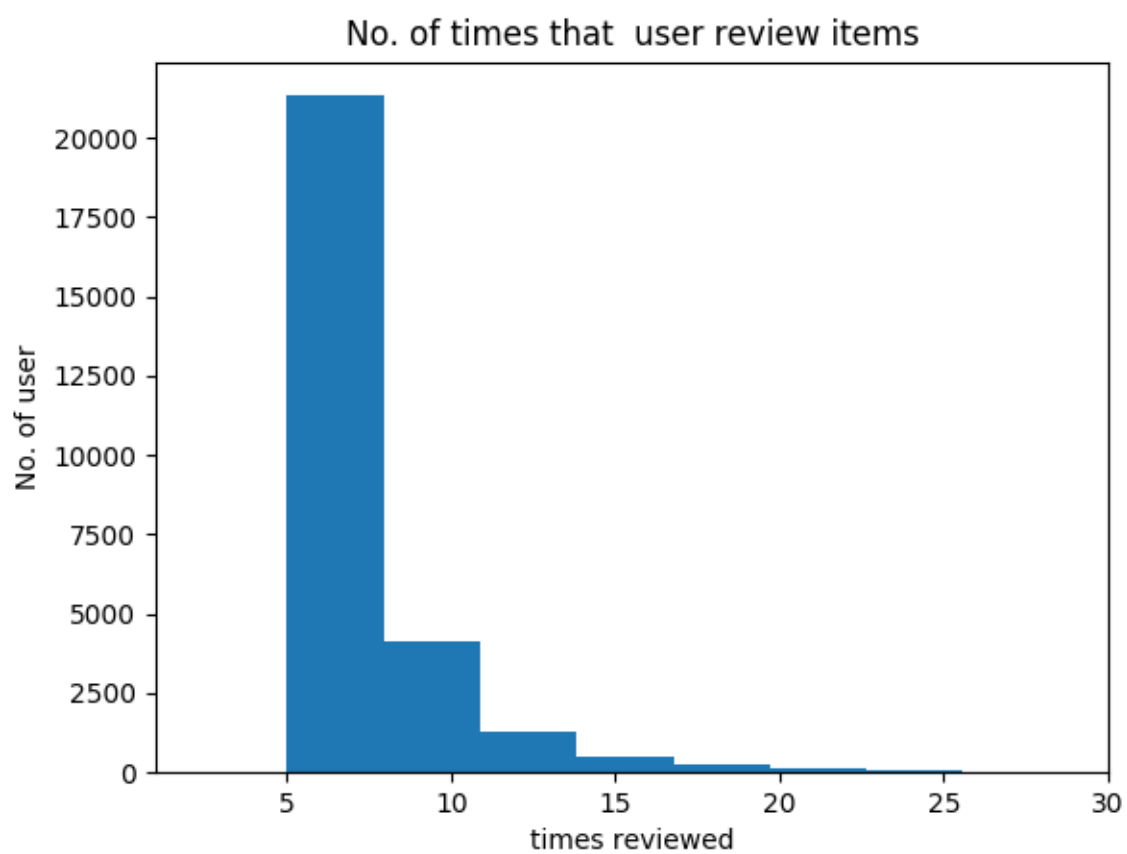


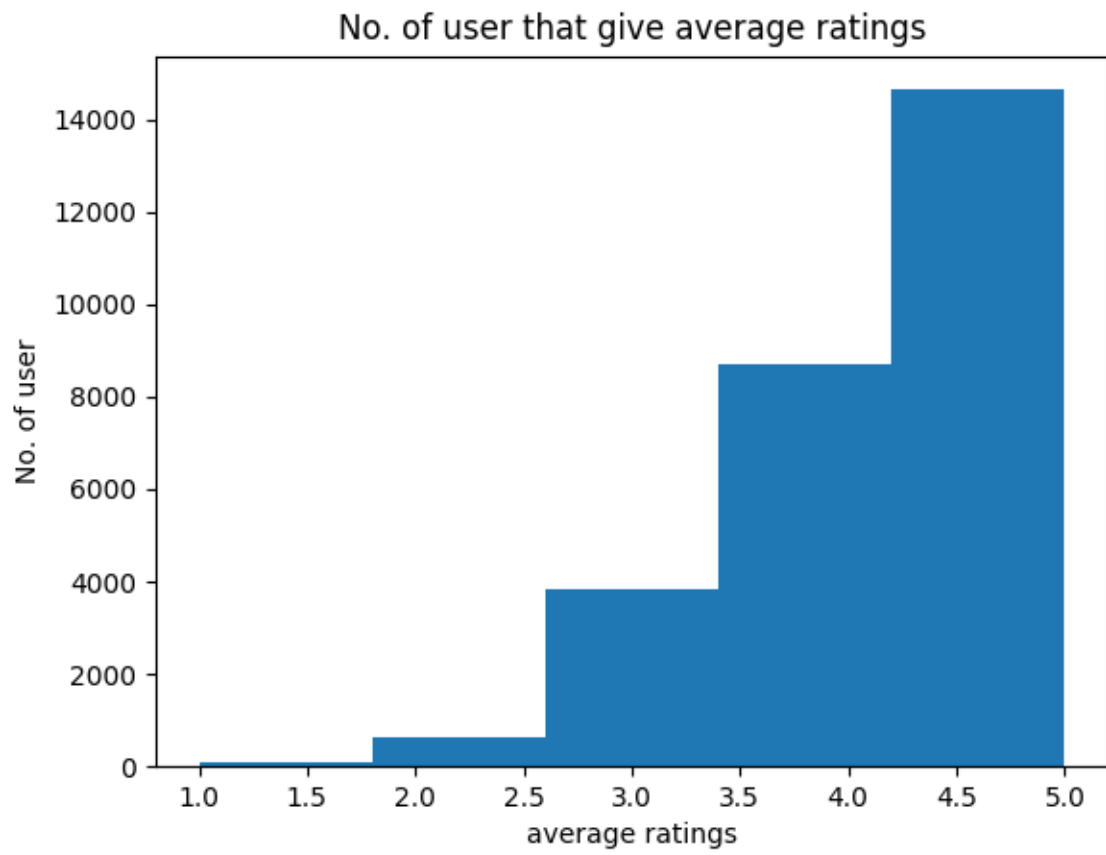
8)Cell Phones and Accessories

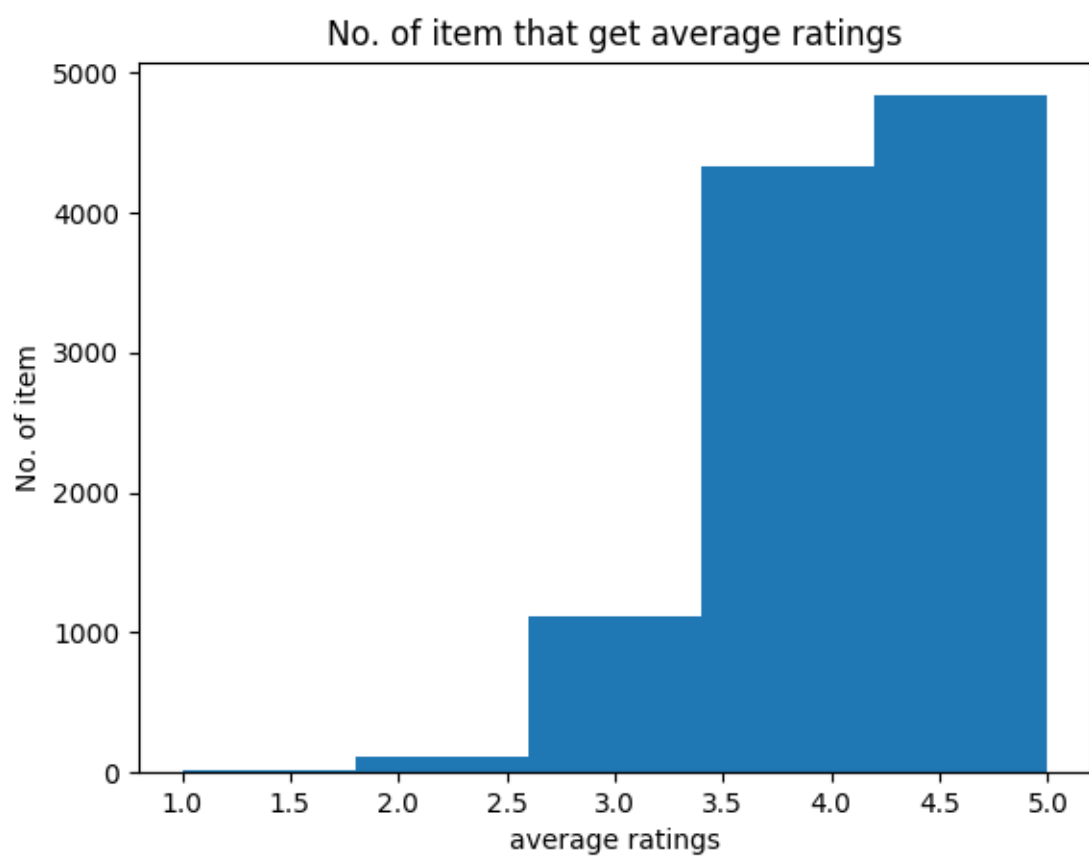


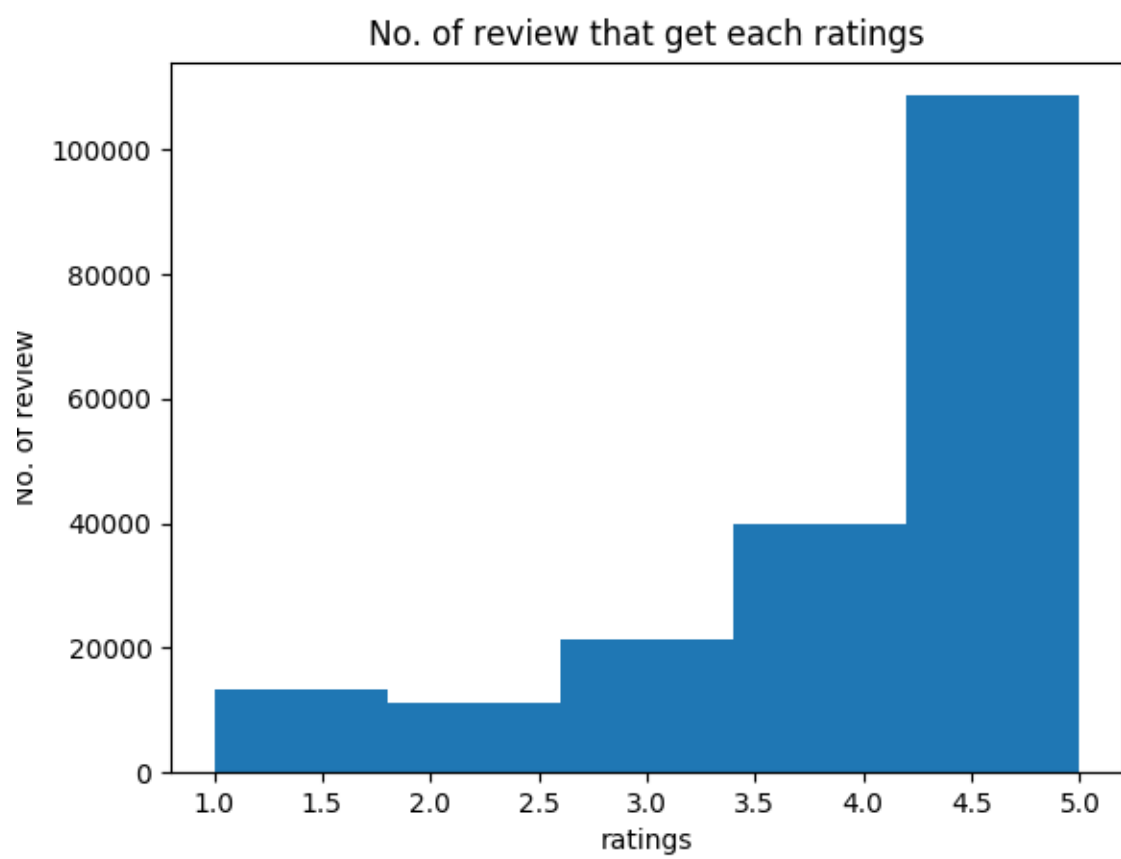


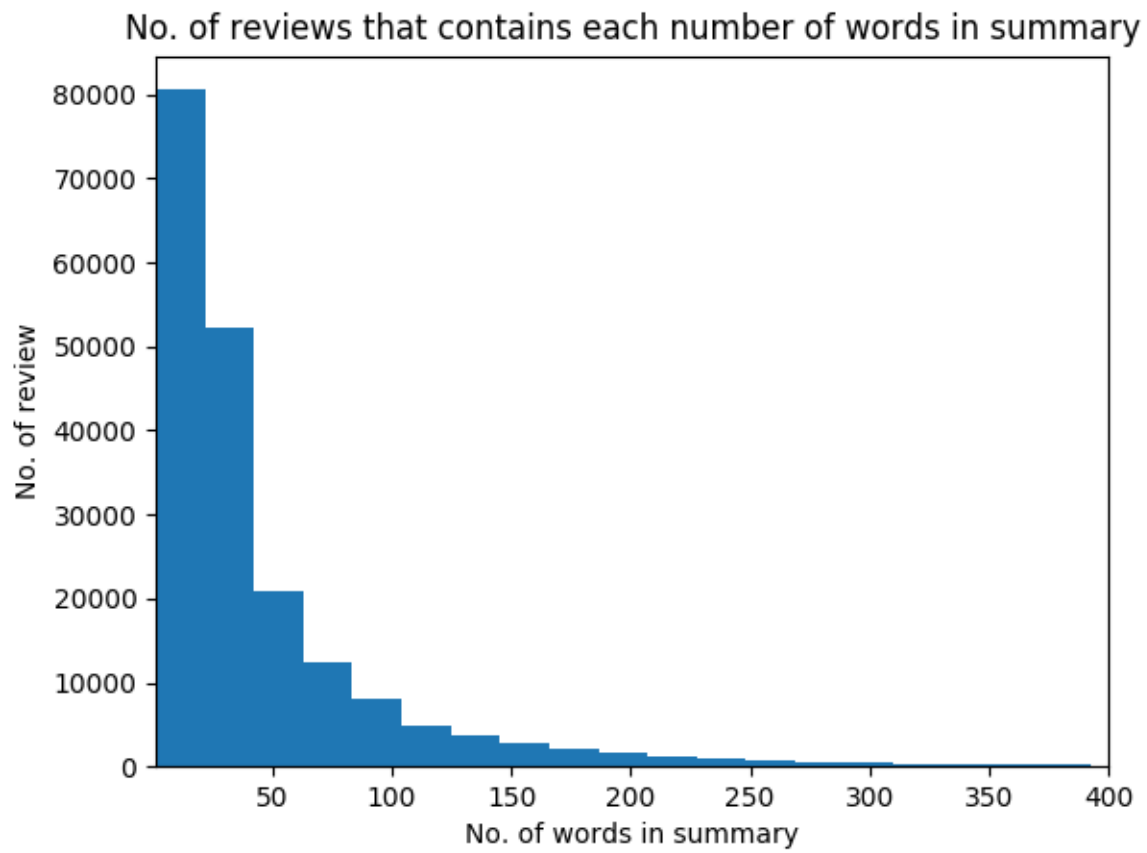




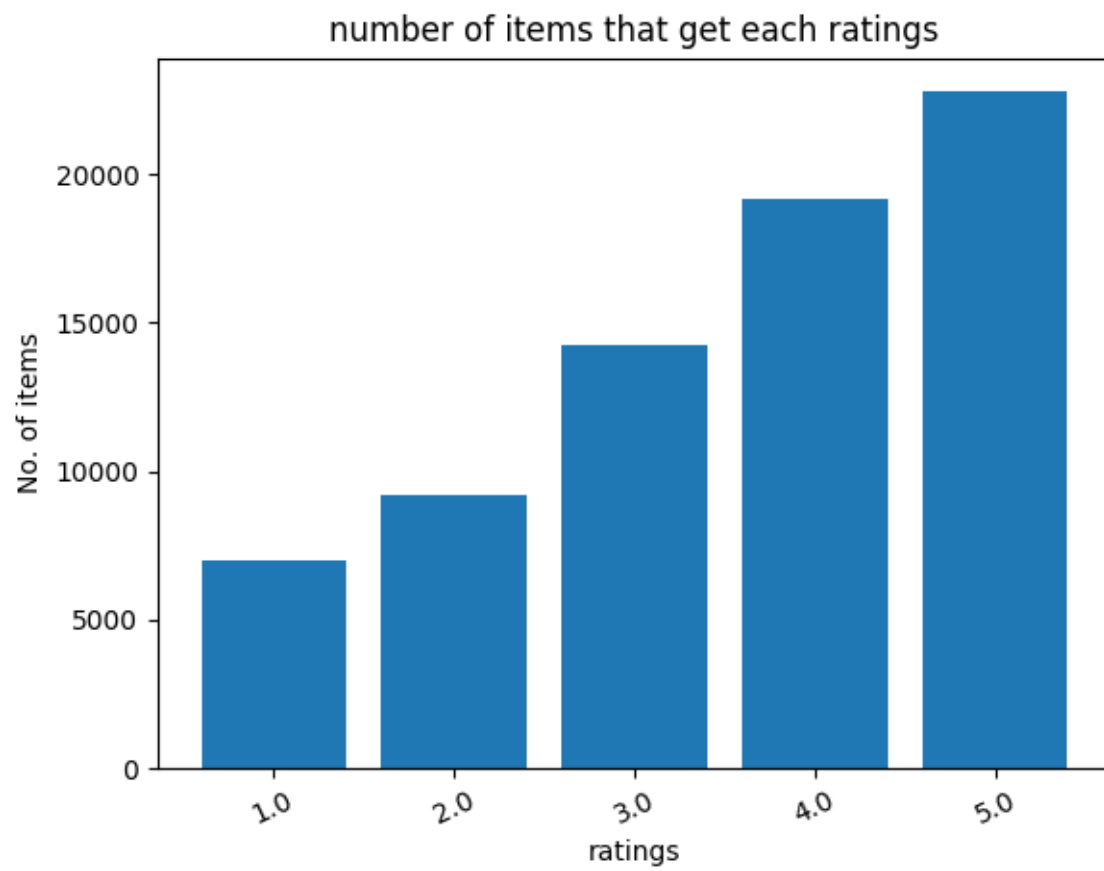


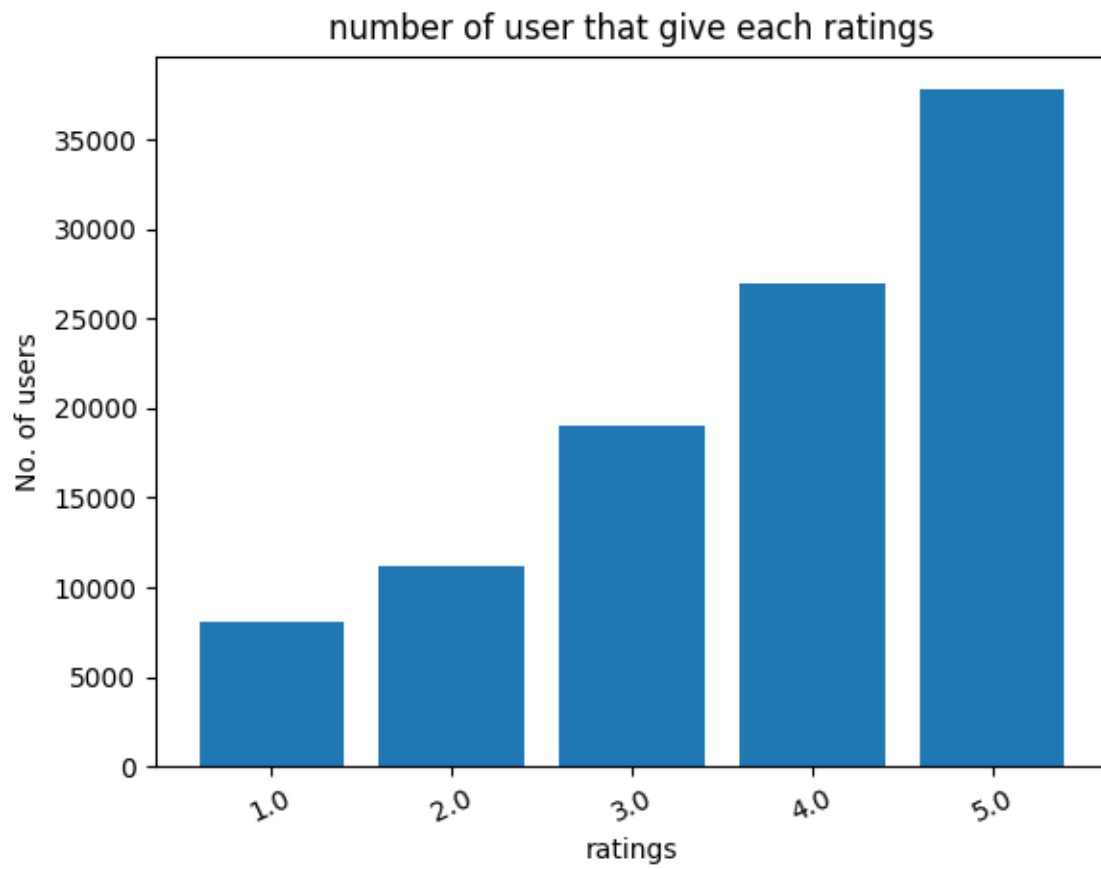


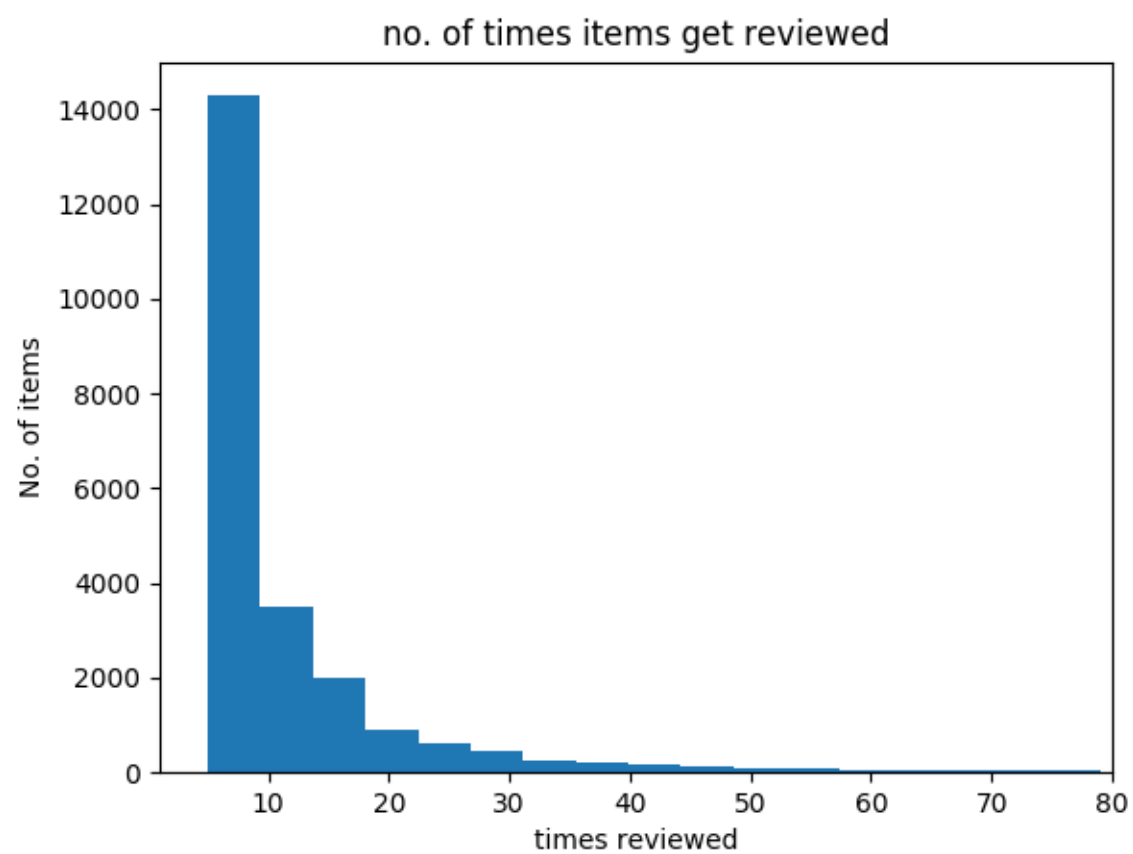


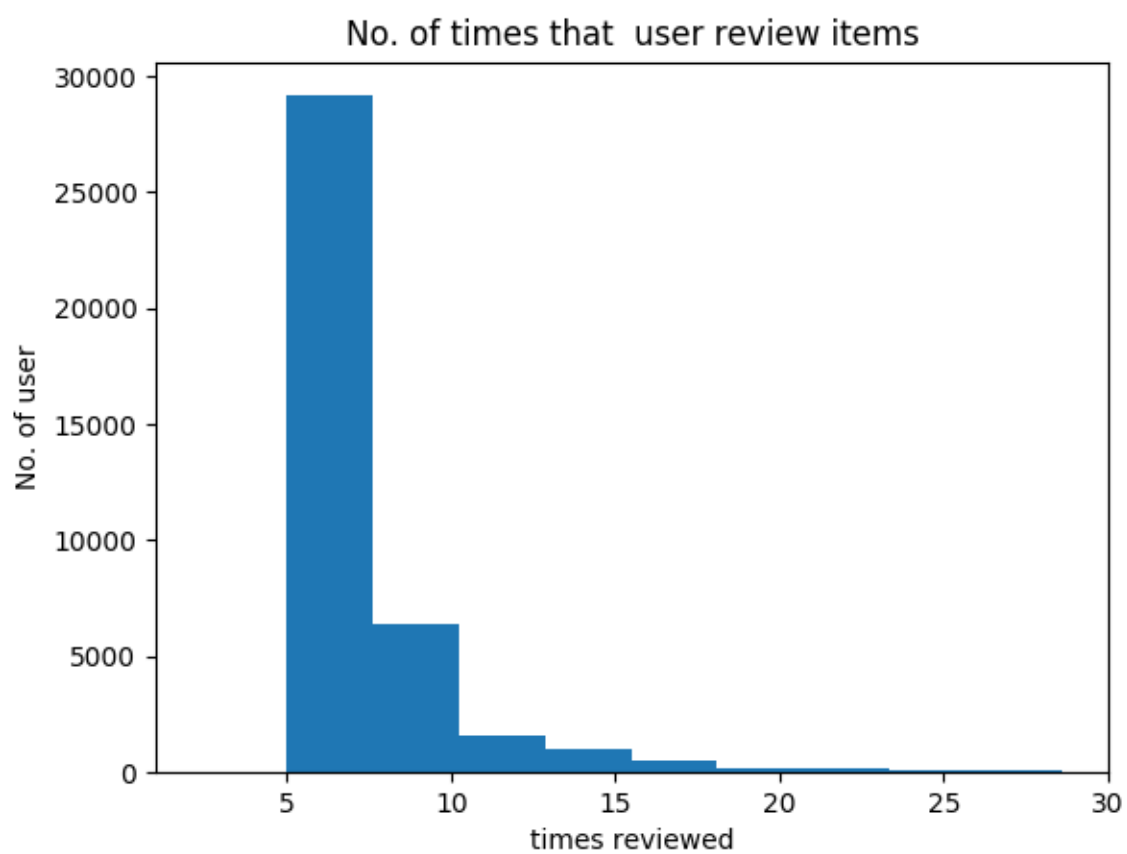


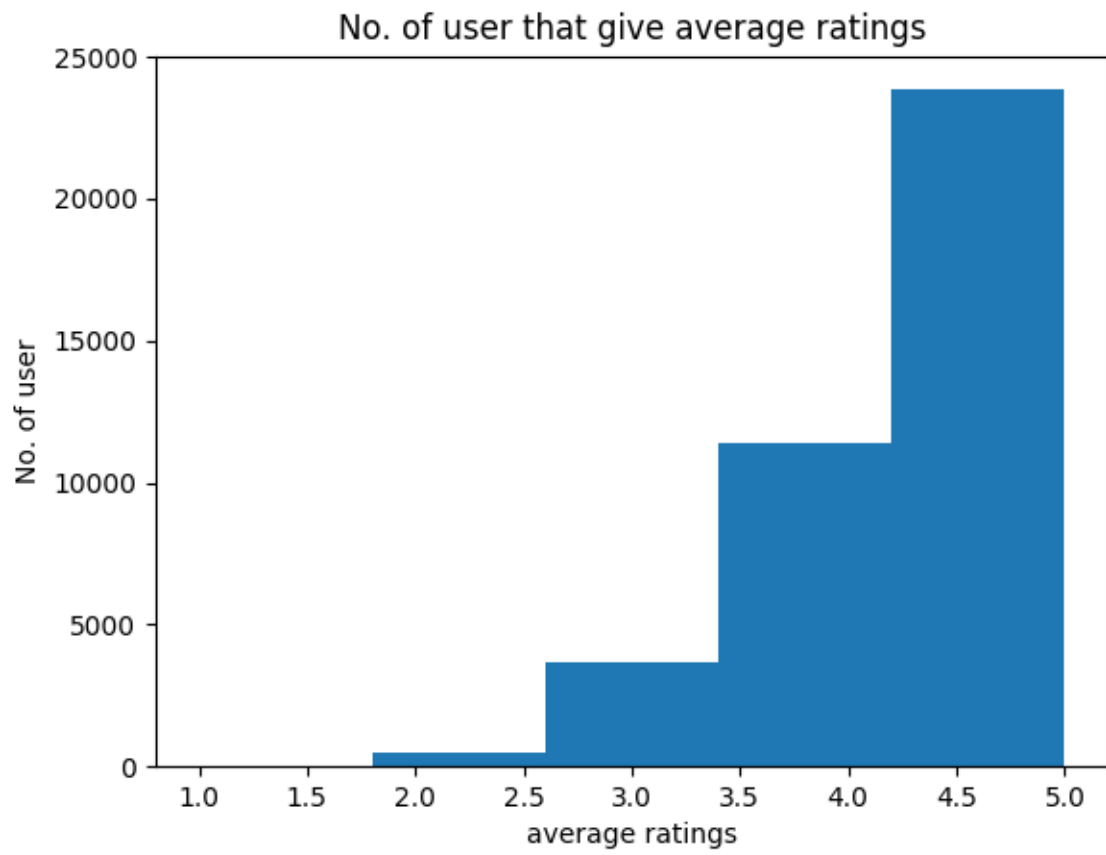
9)Clothing Shoes and Jewelry

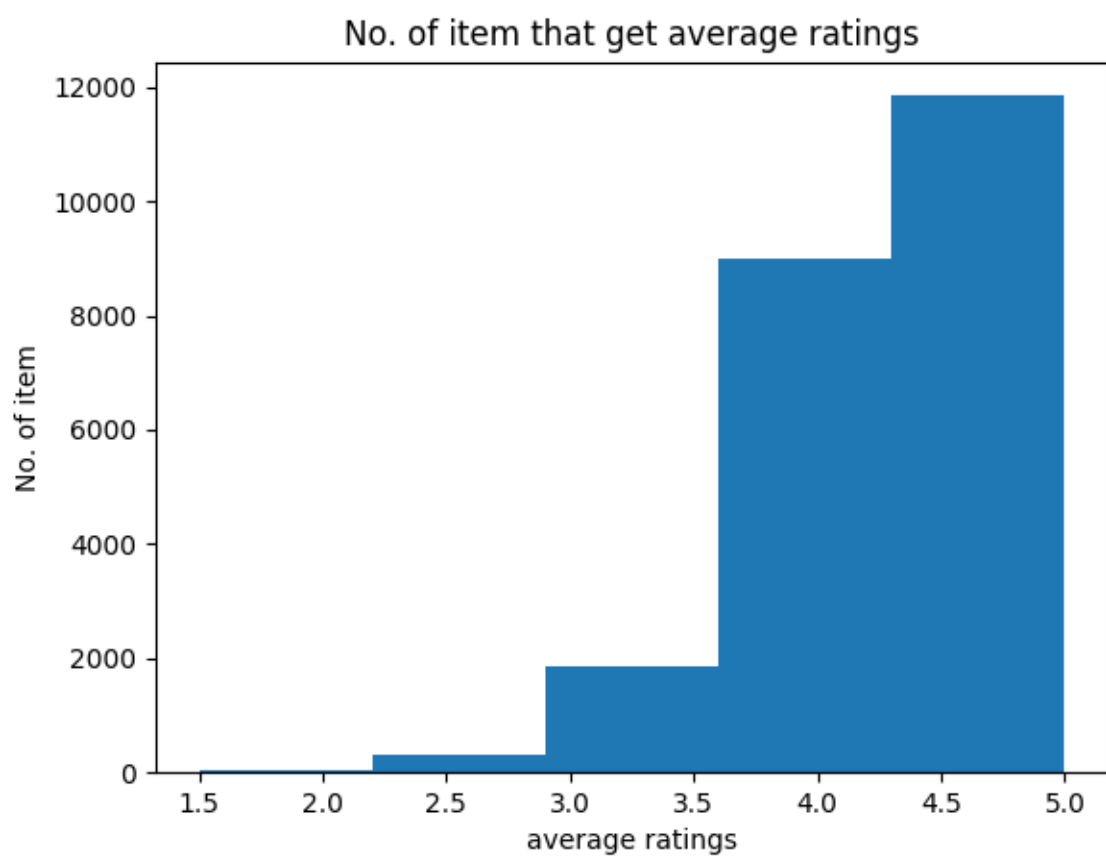


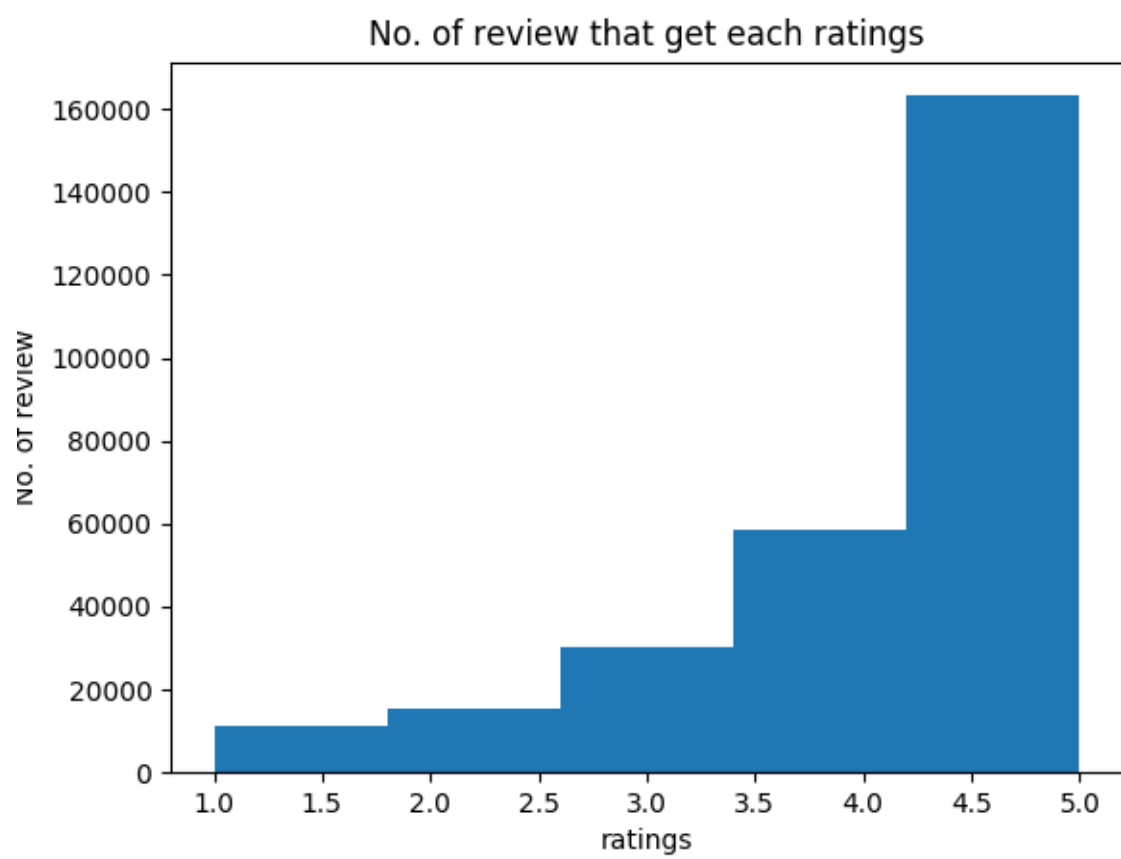


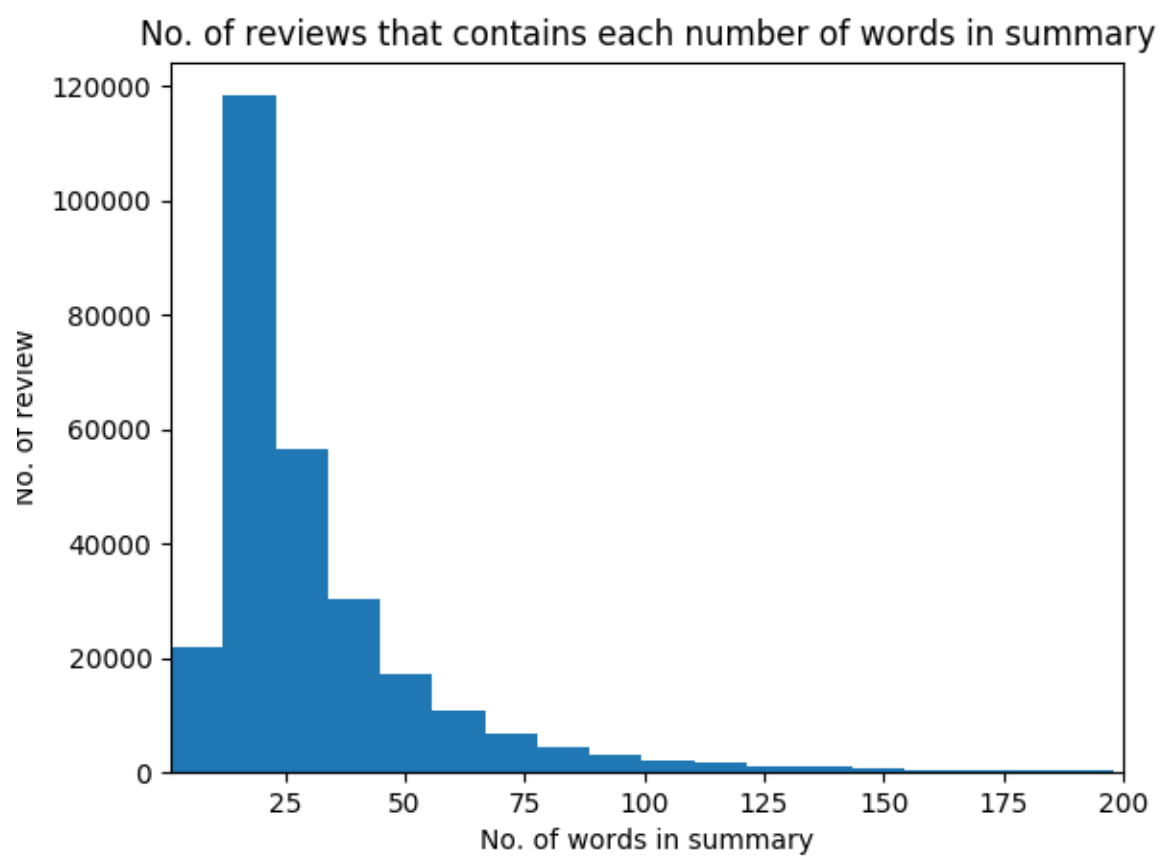




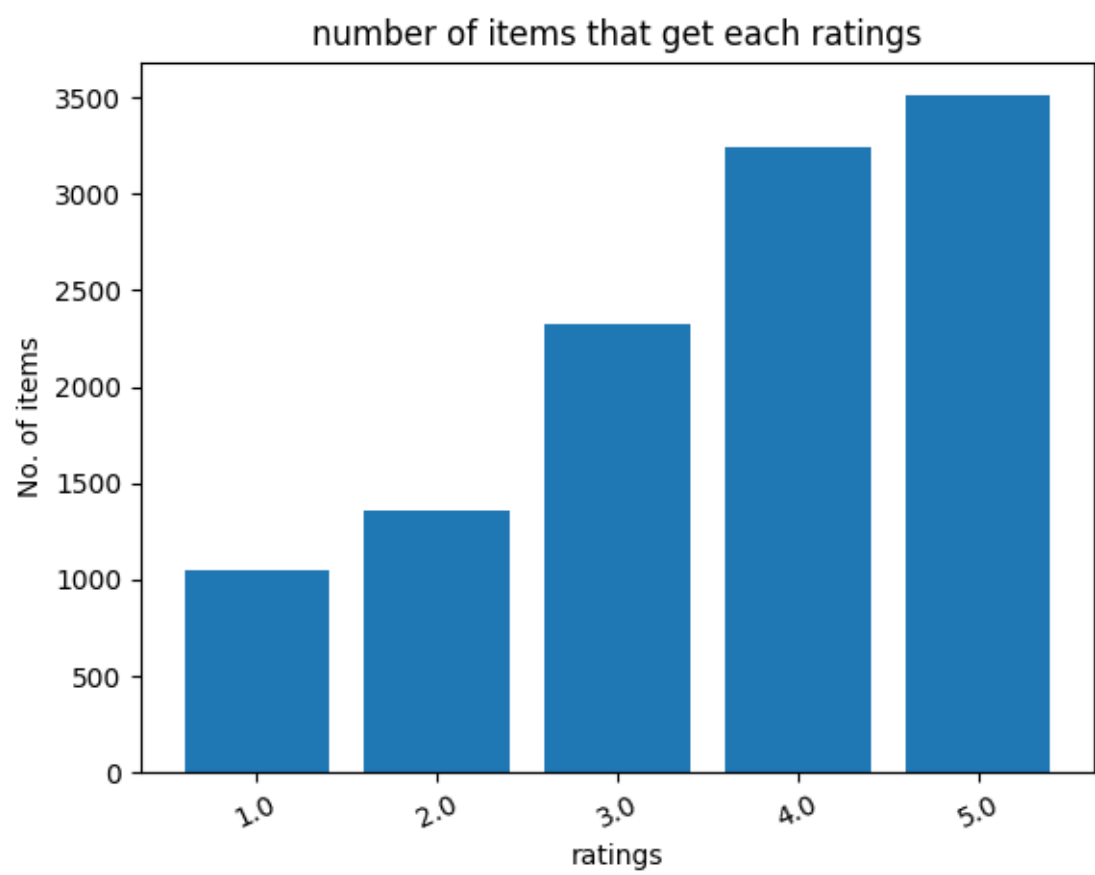


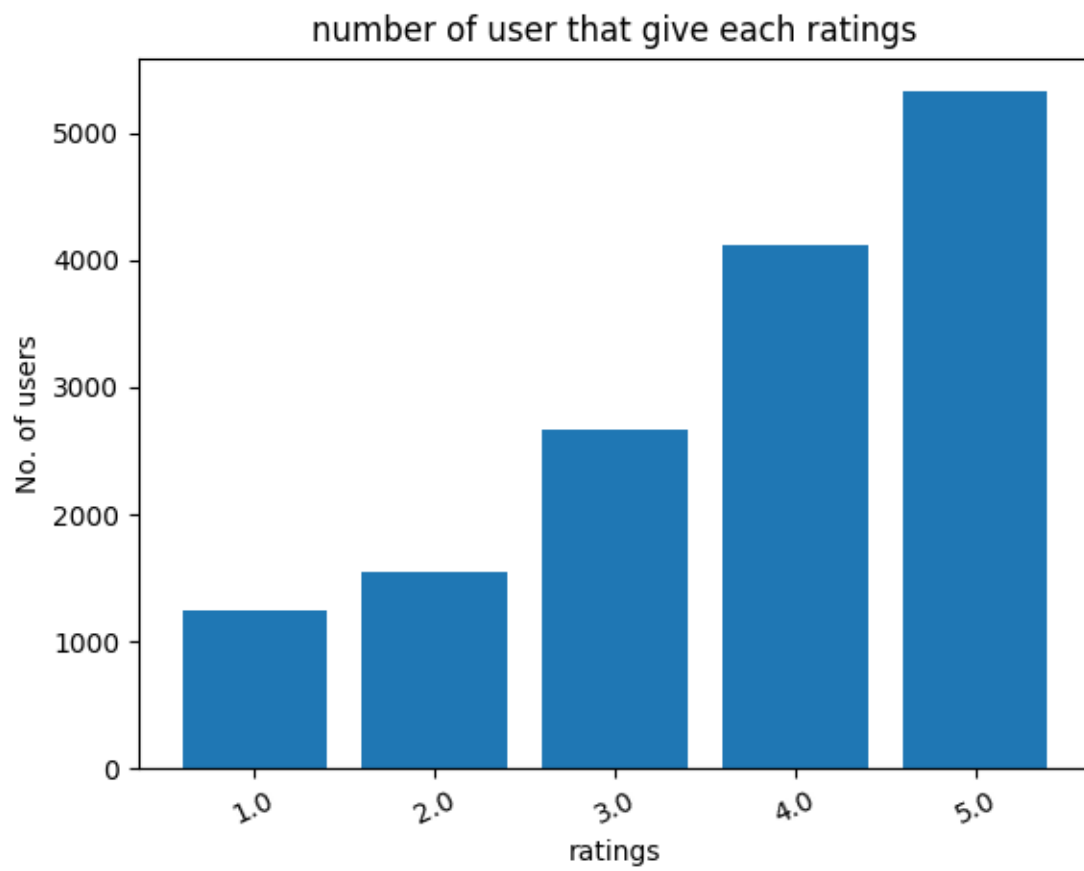


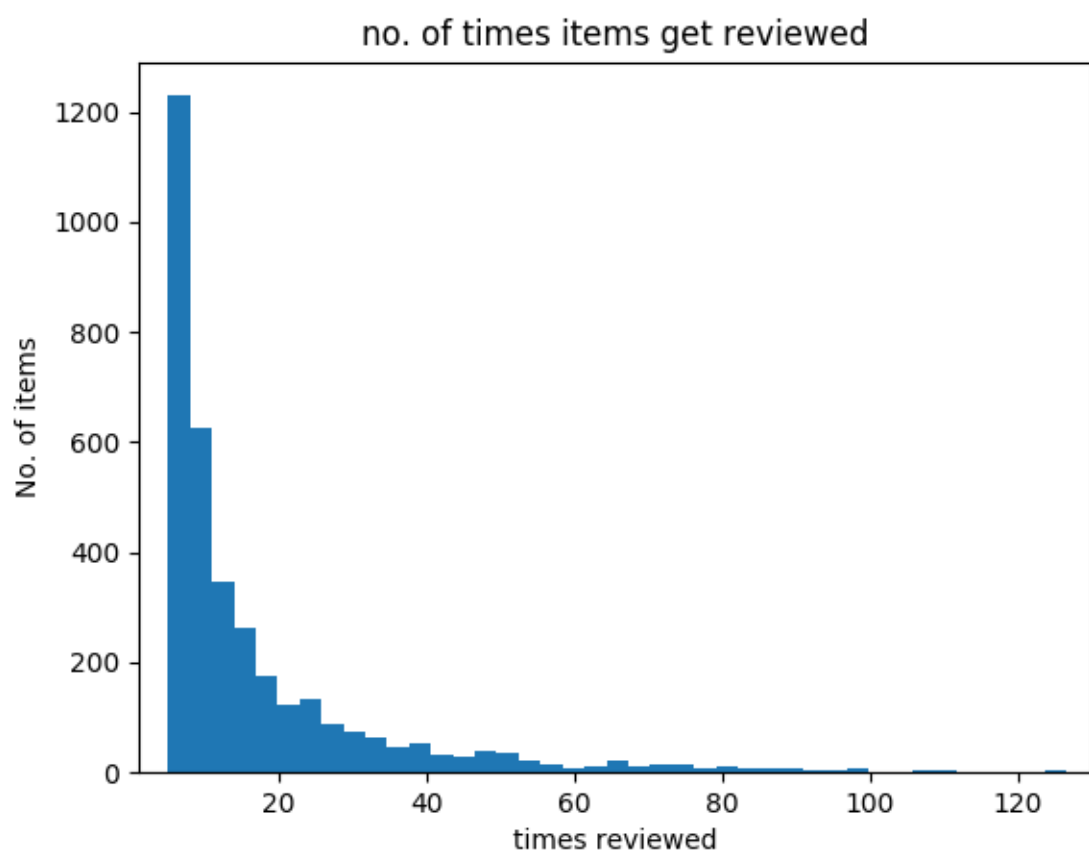


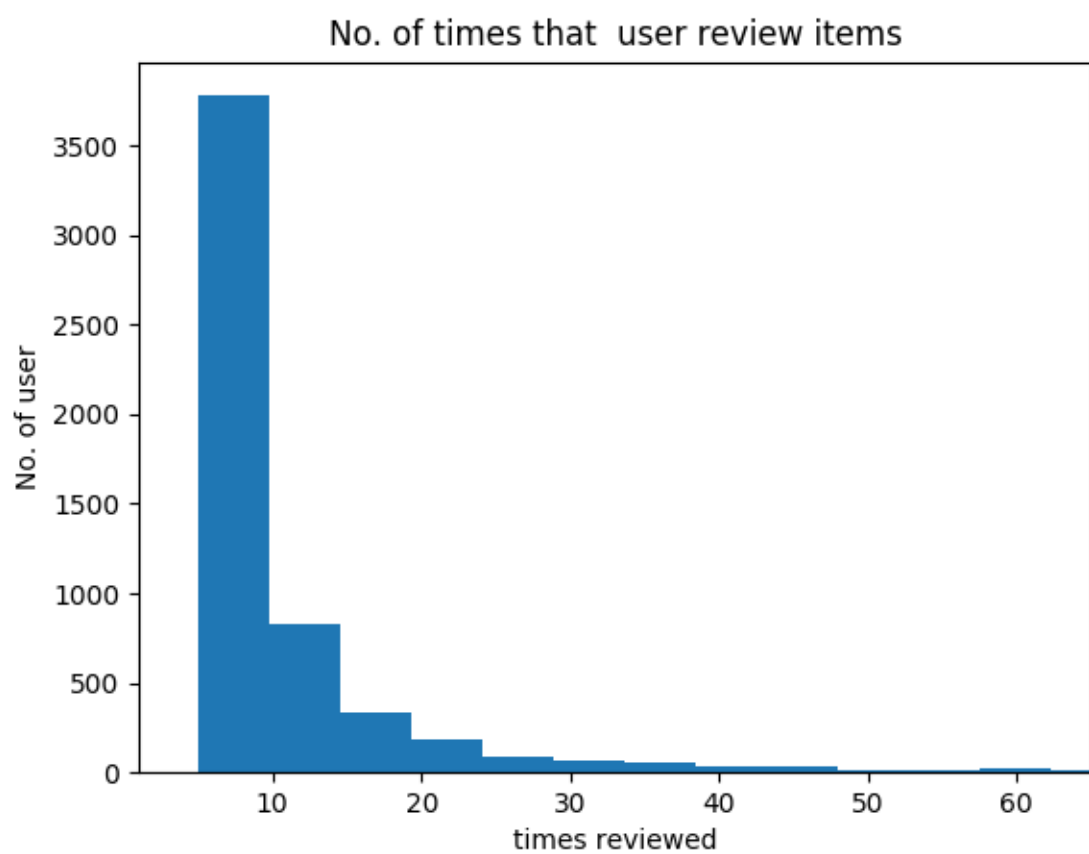


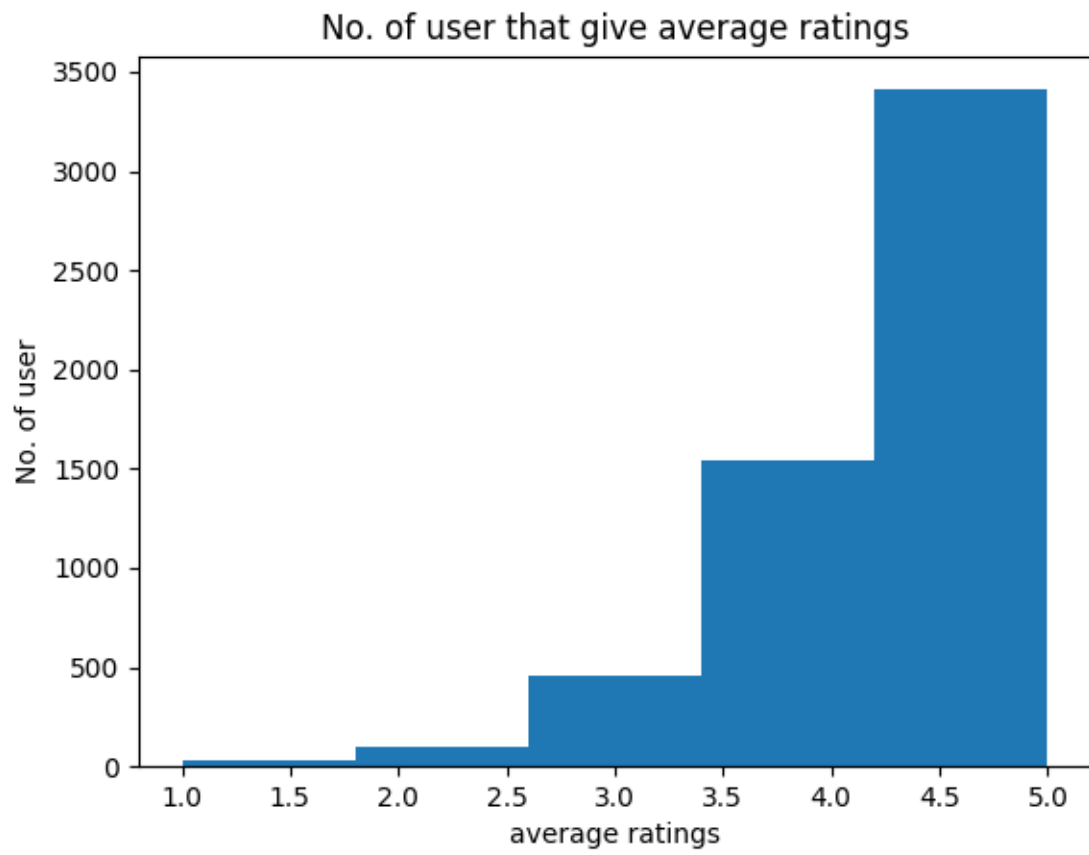
10)Digital music

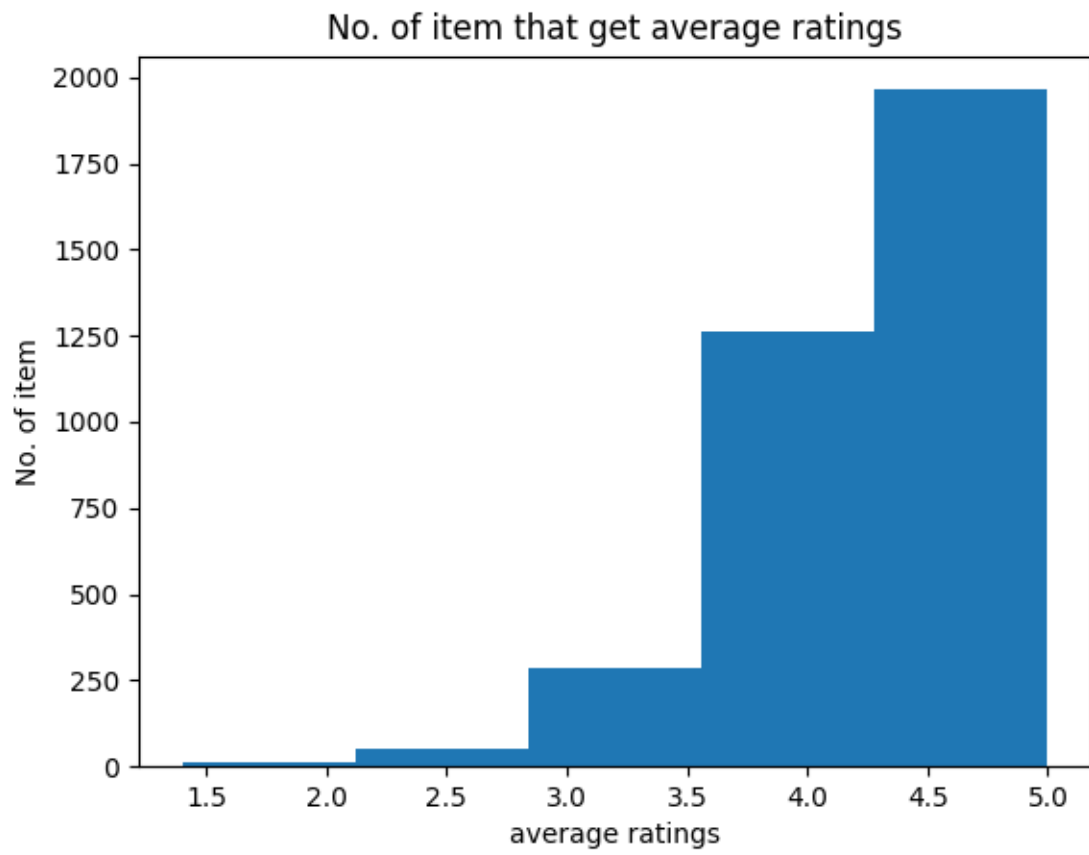


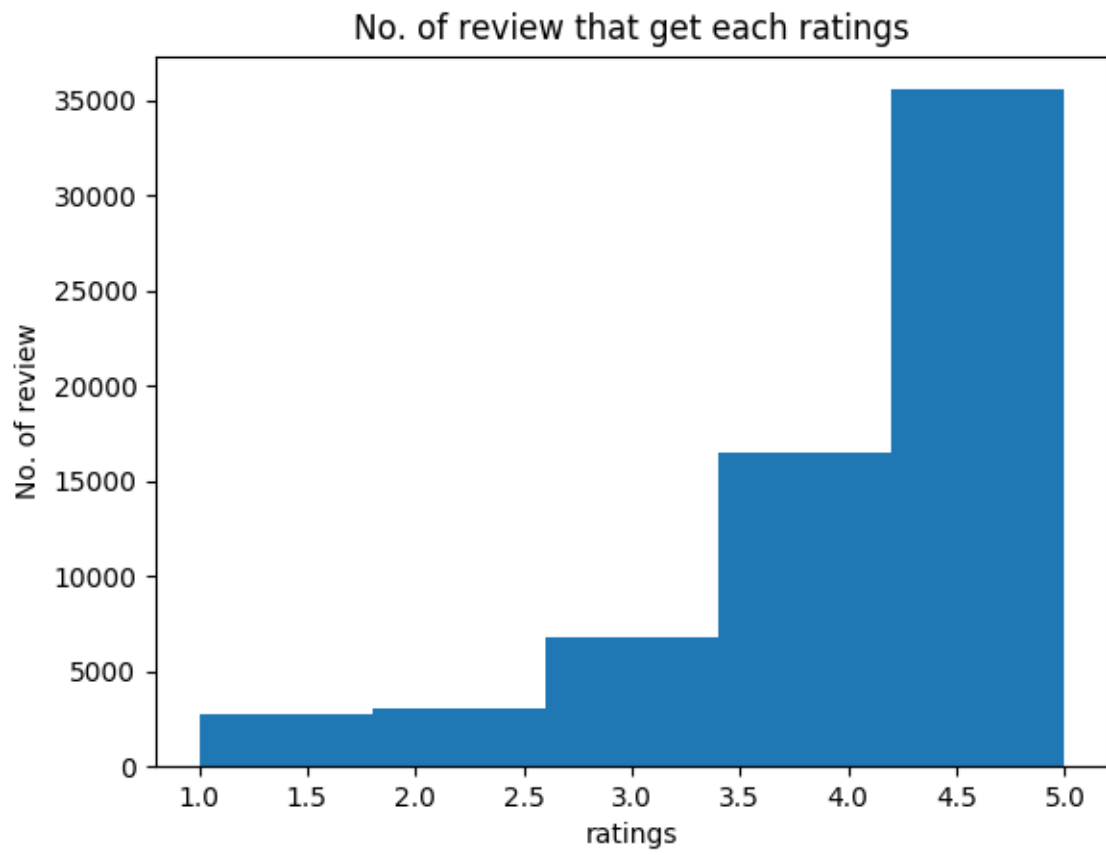


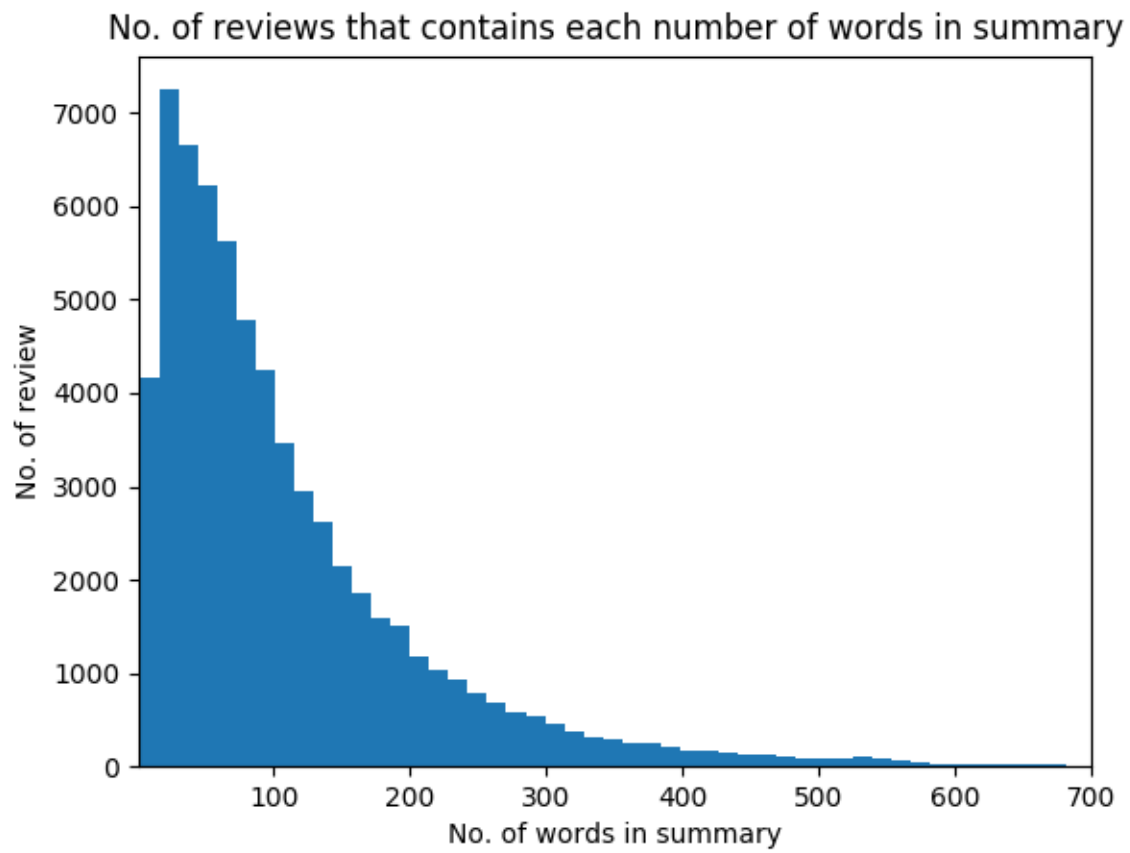




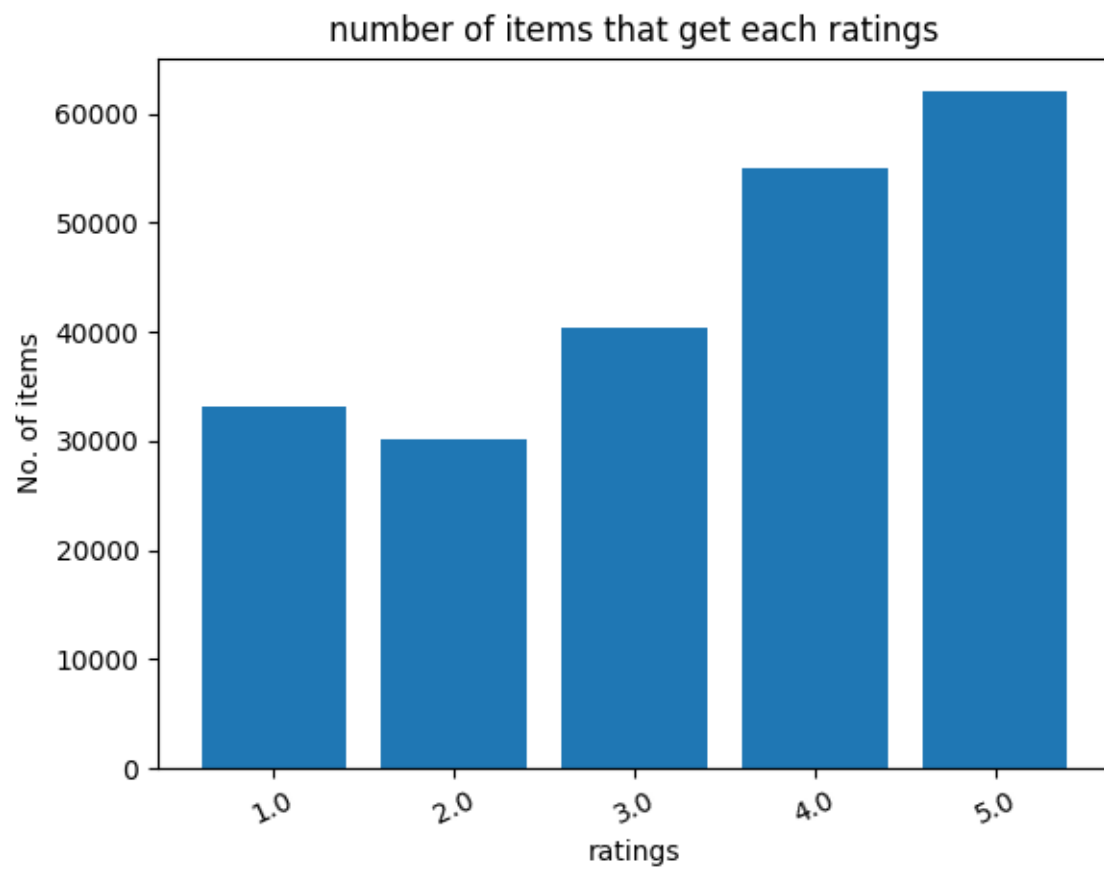


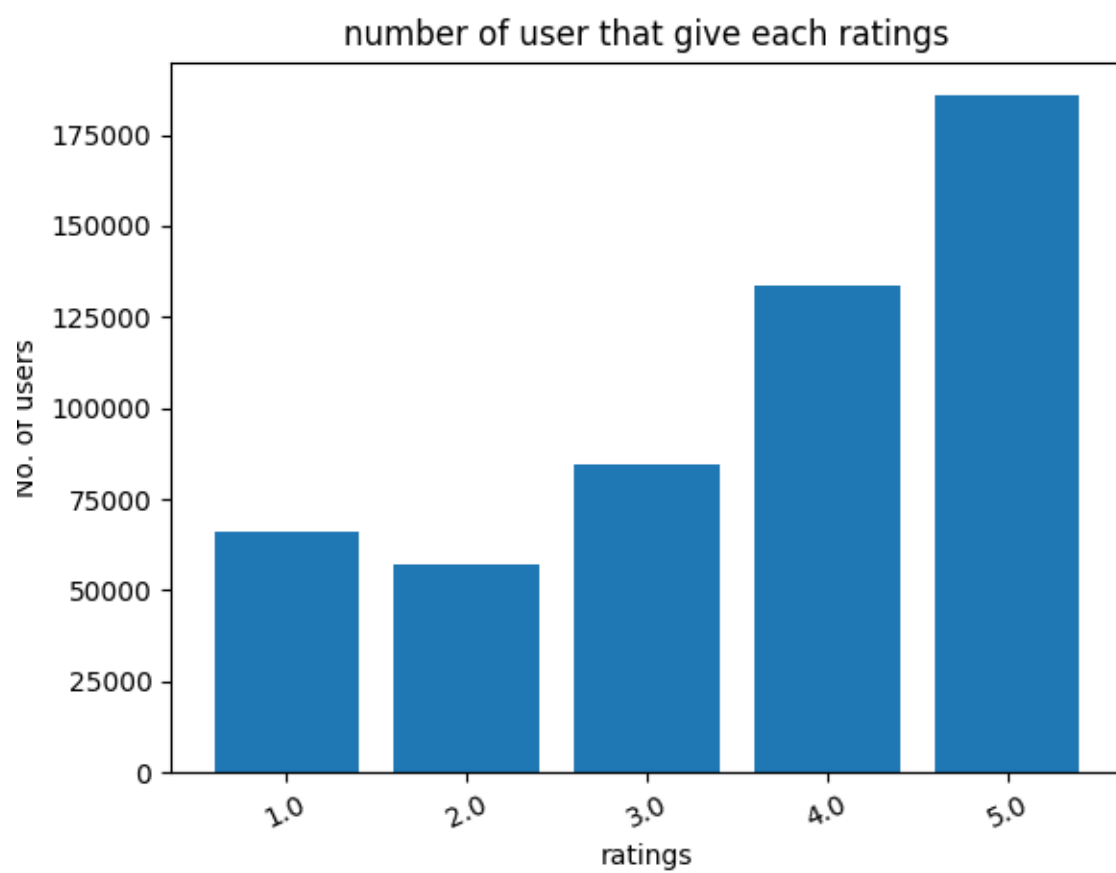


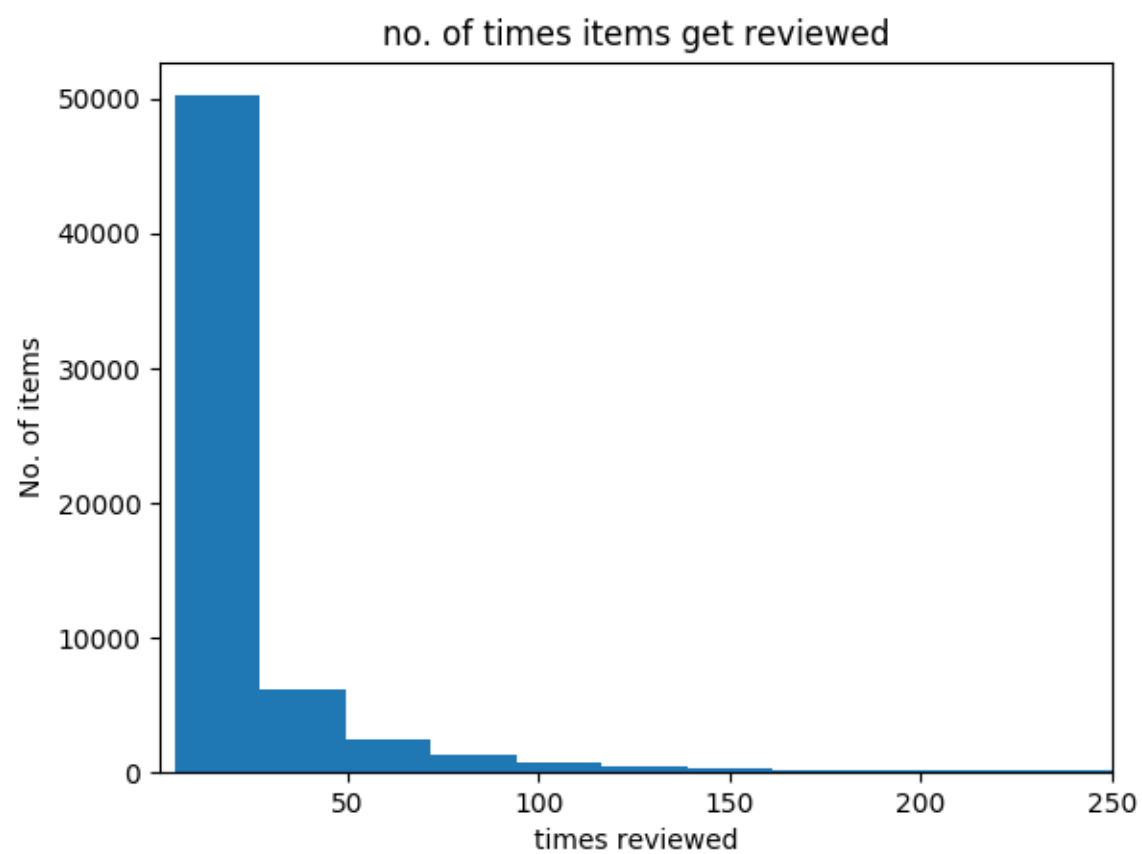


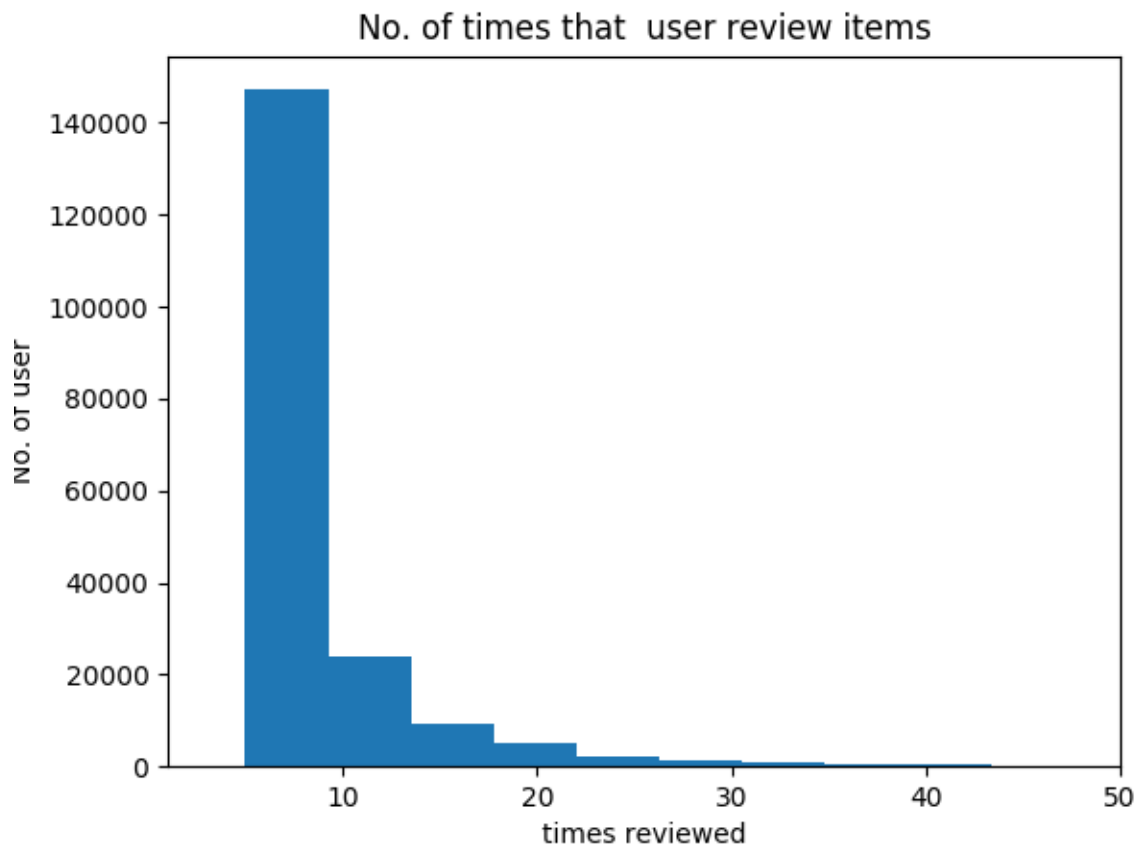


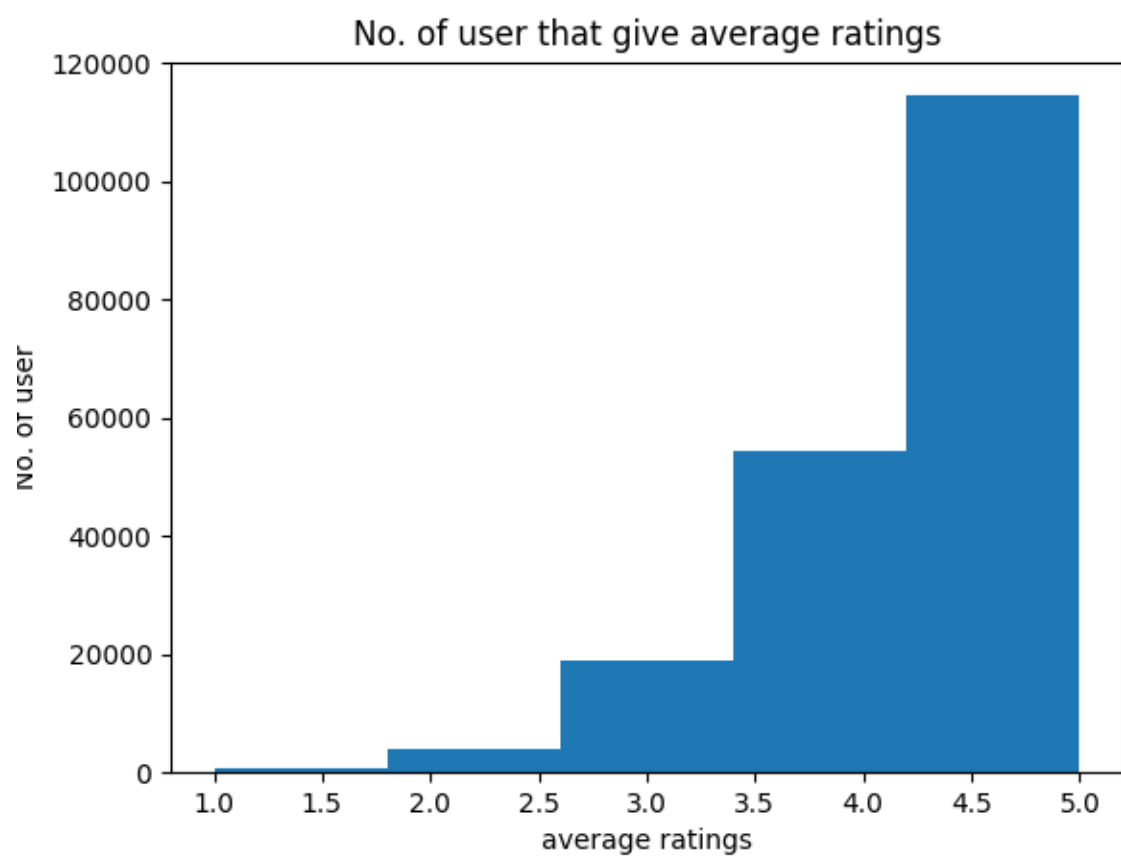
11)Electronics

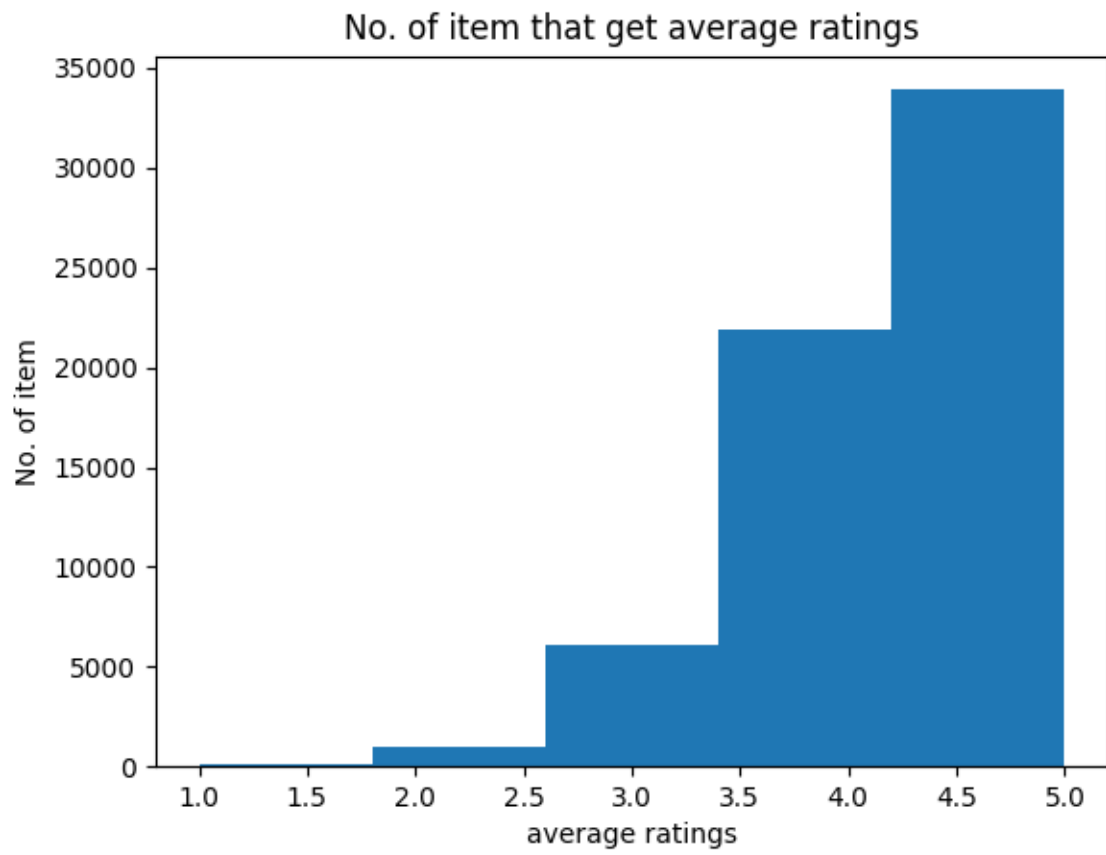


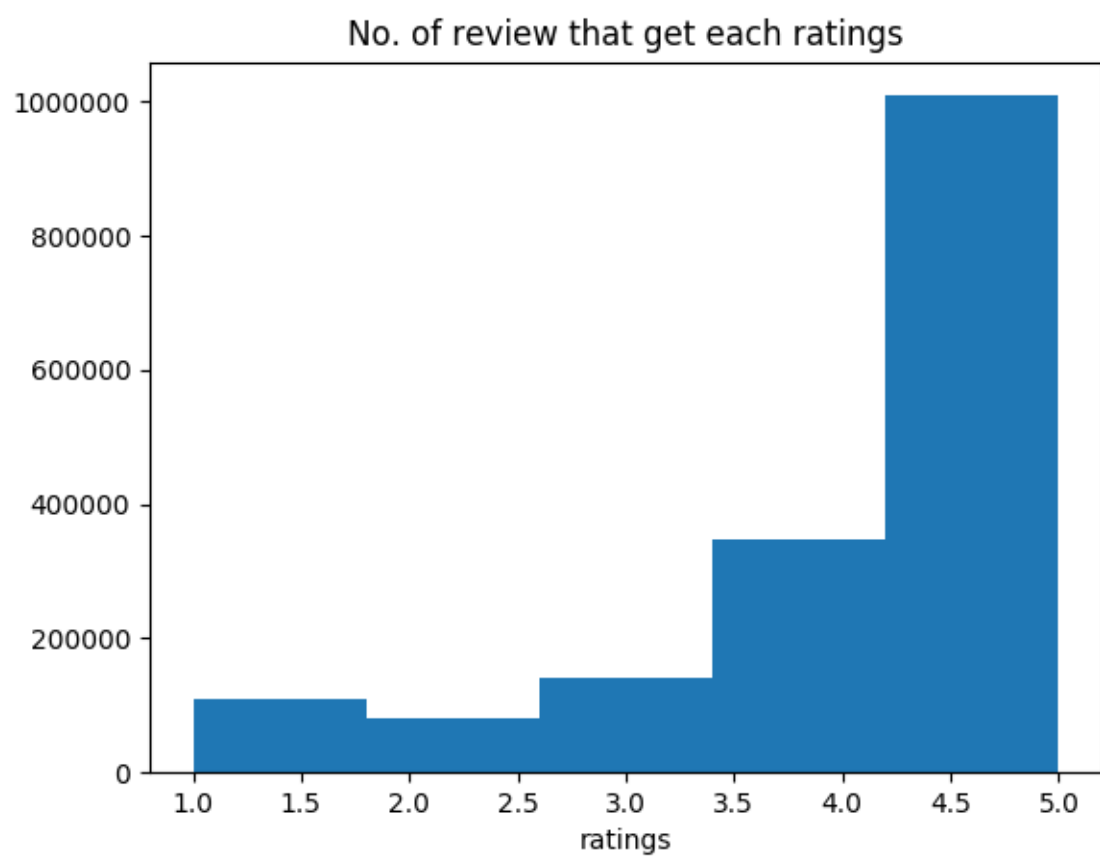


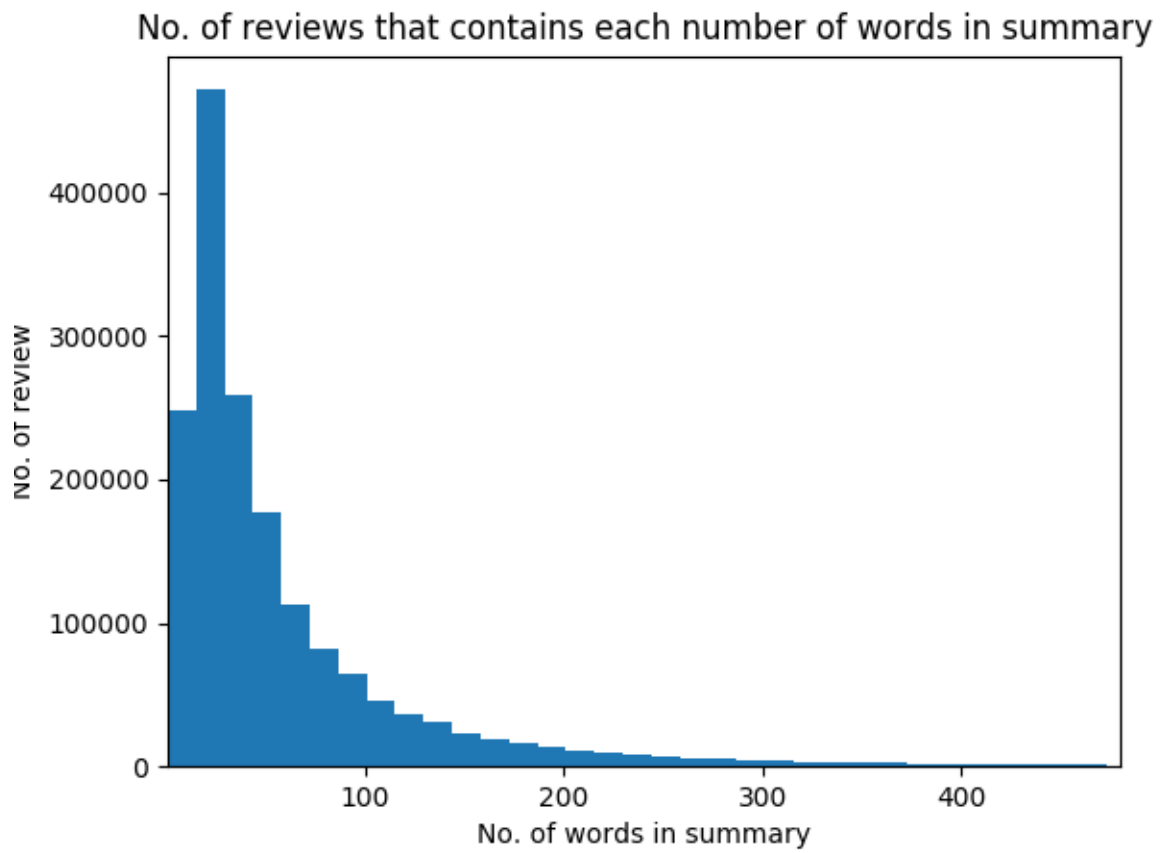




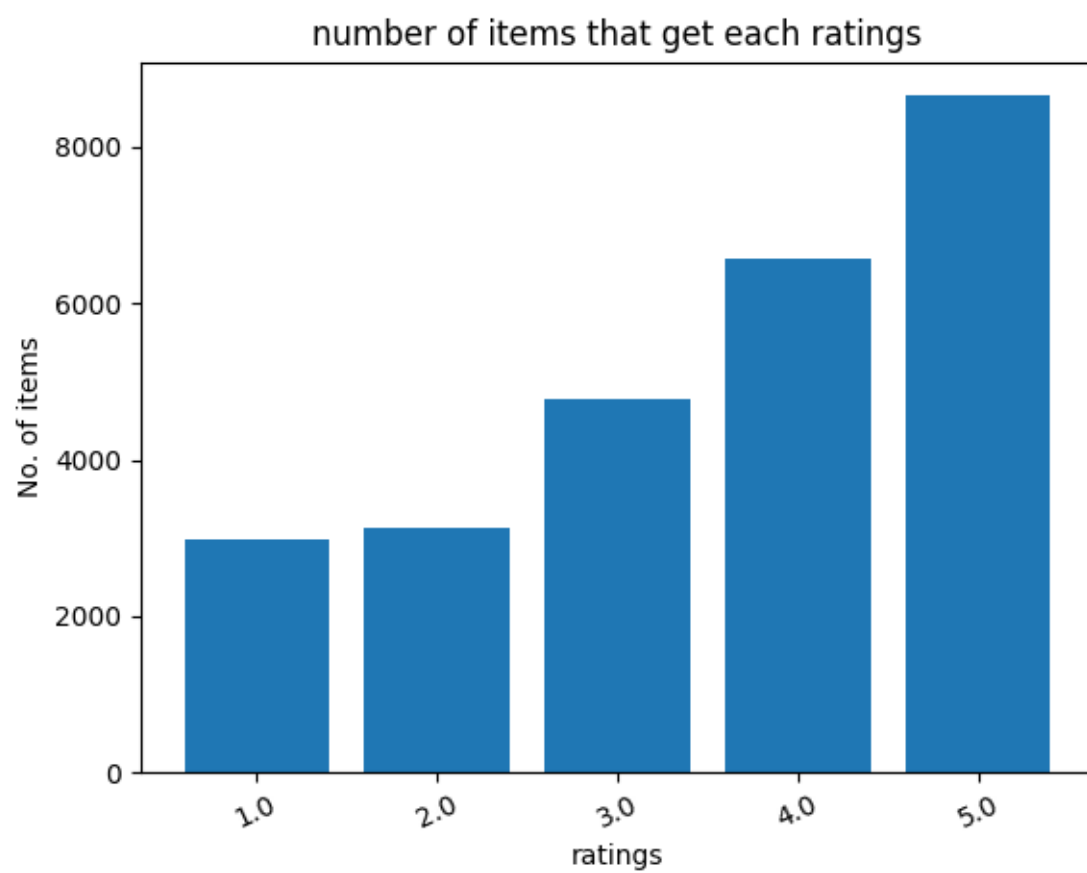


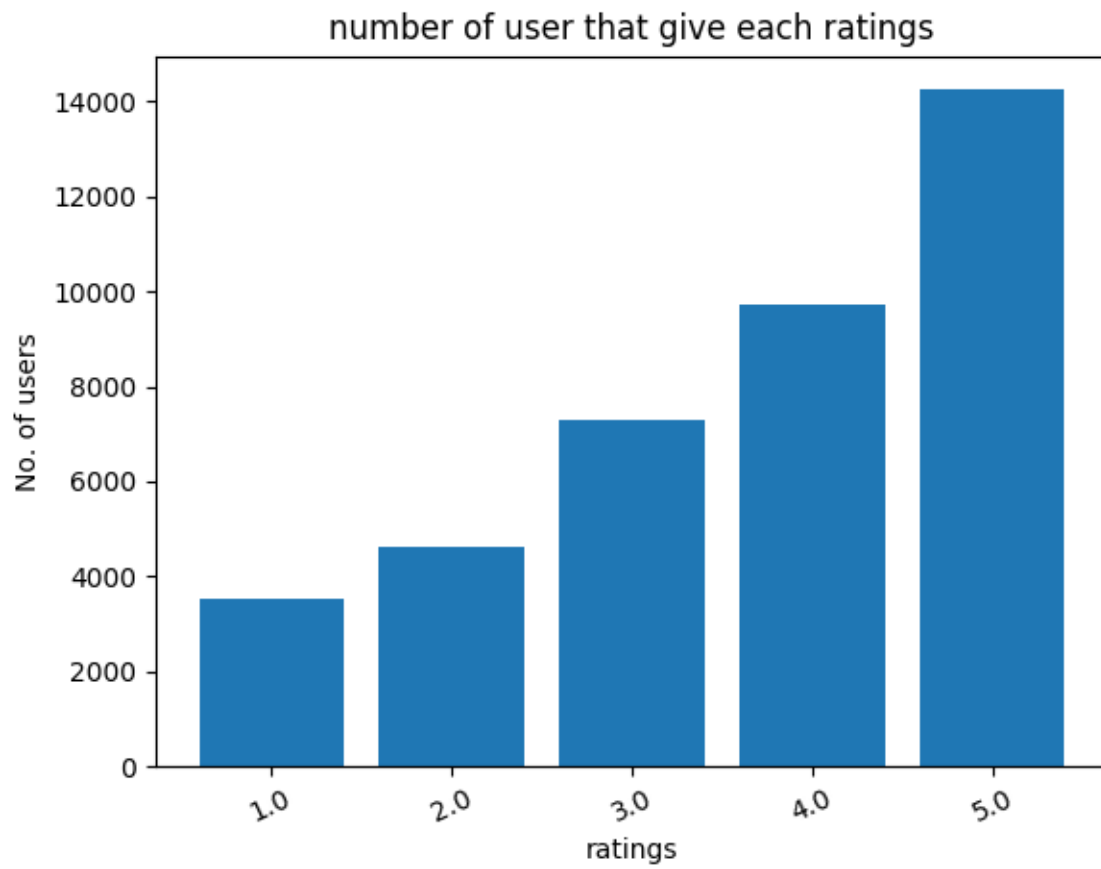


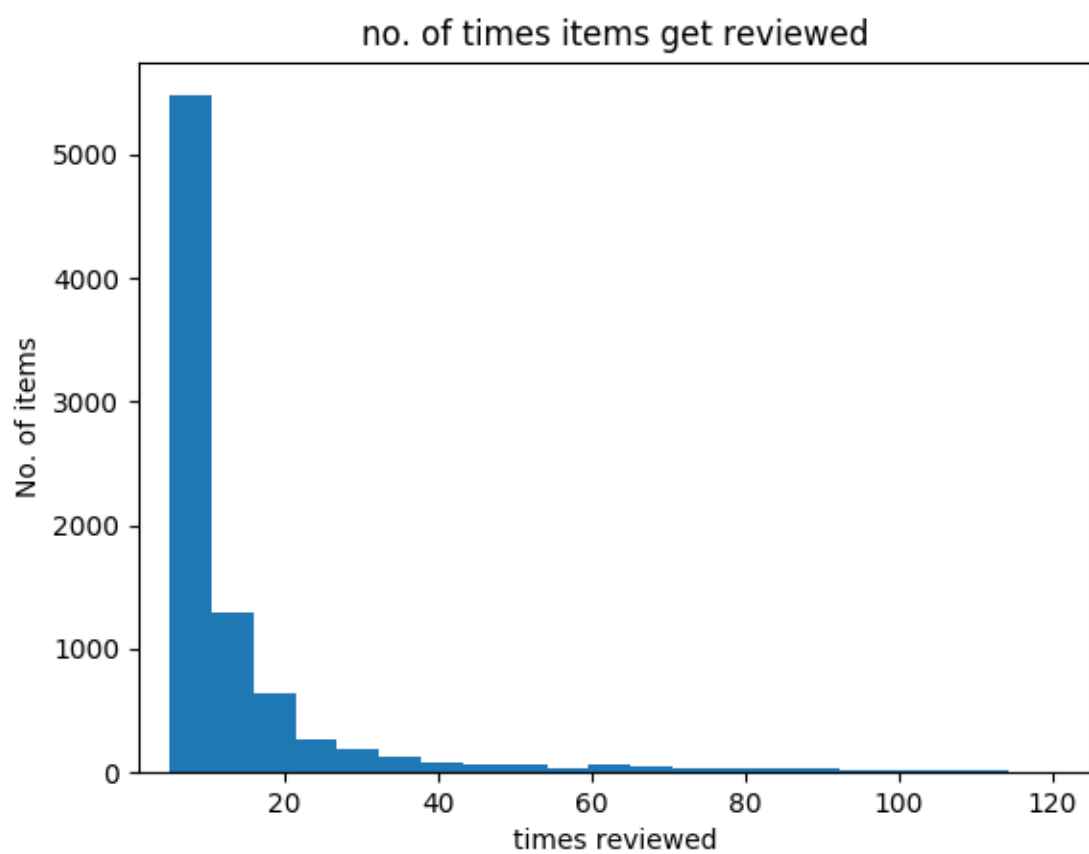


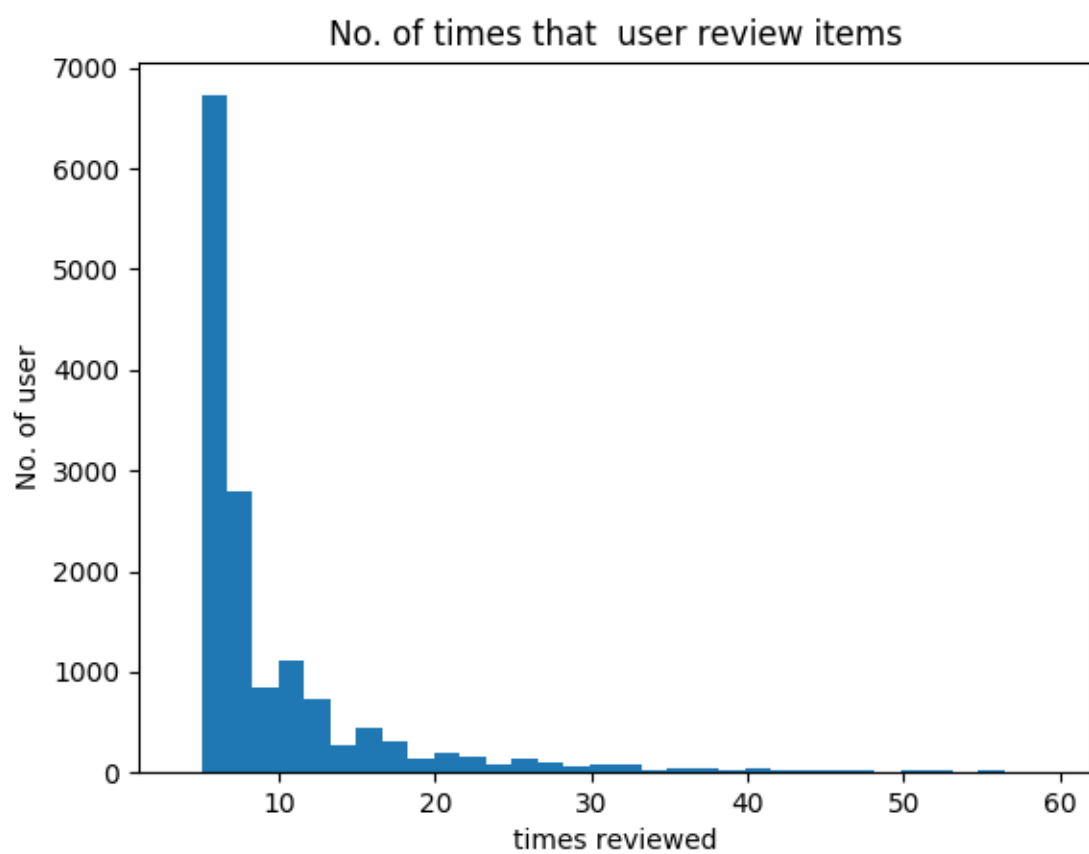


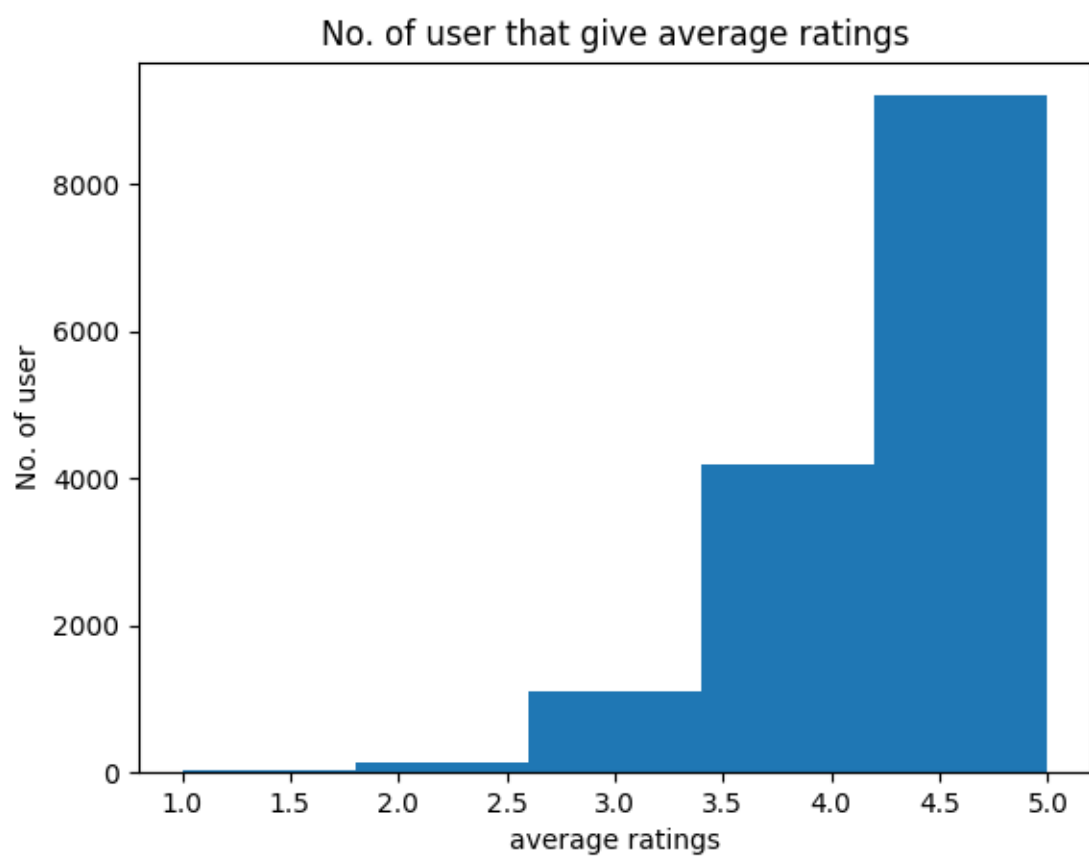
12)Grocery and Gourmet Food

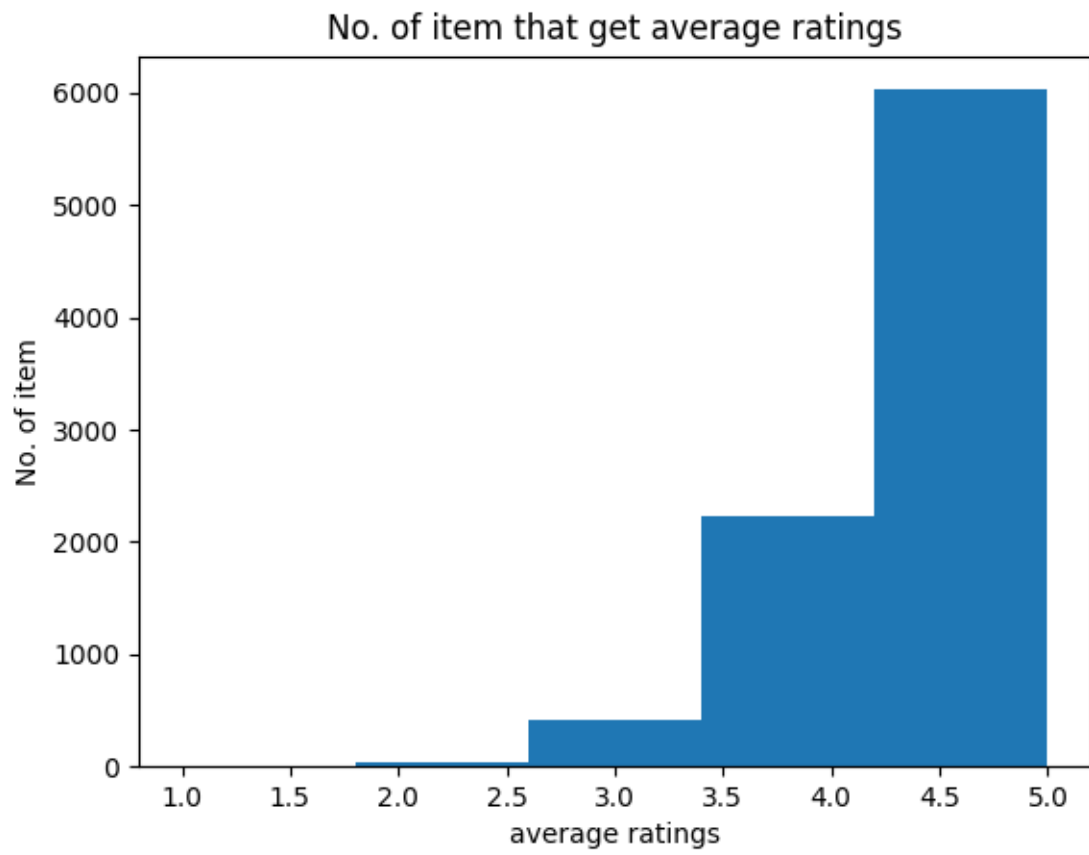


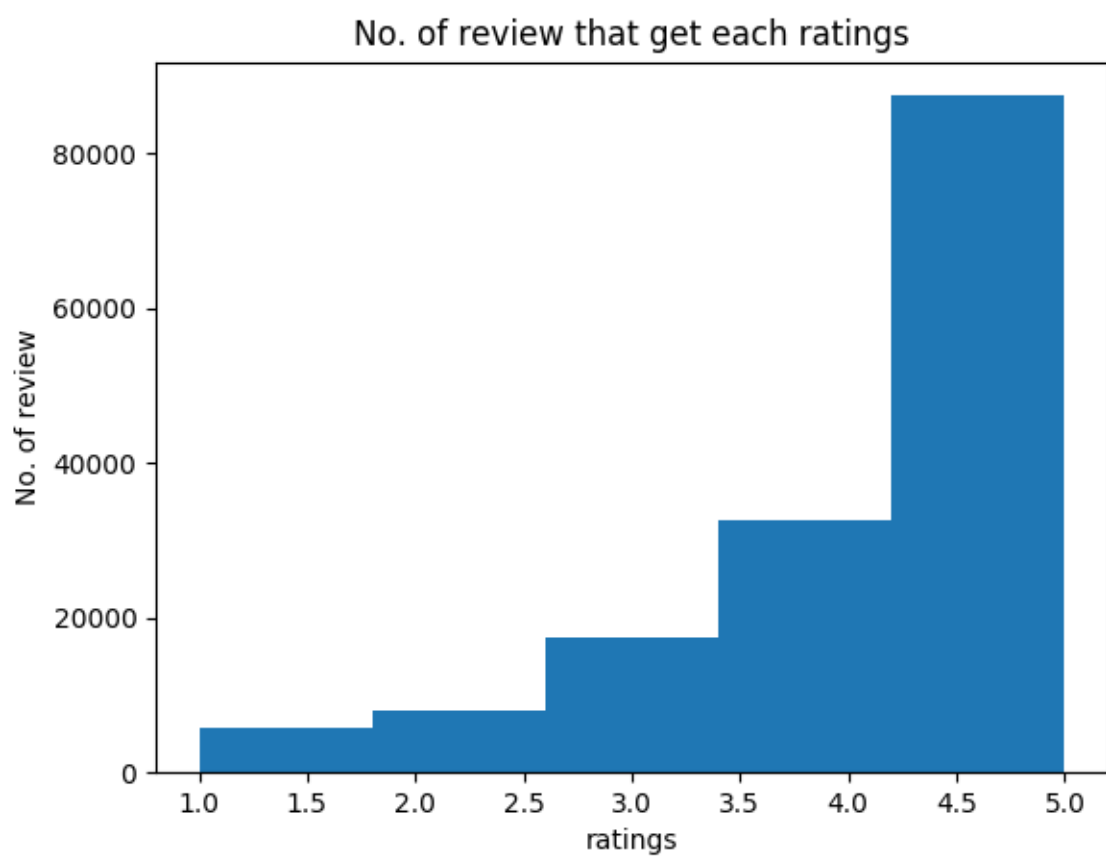


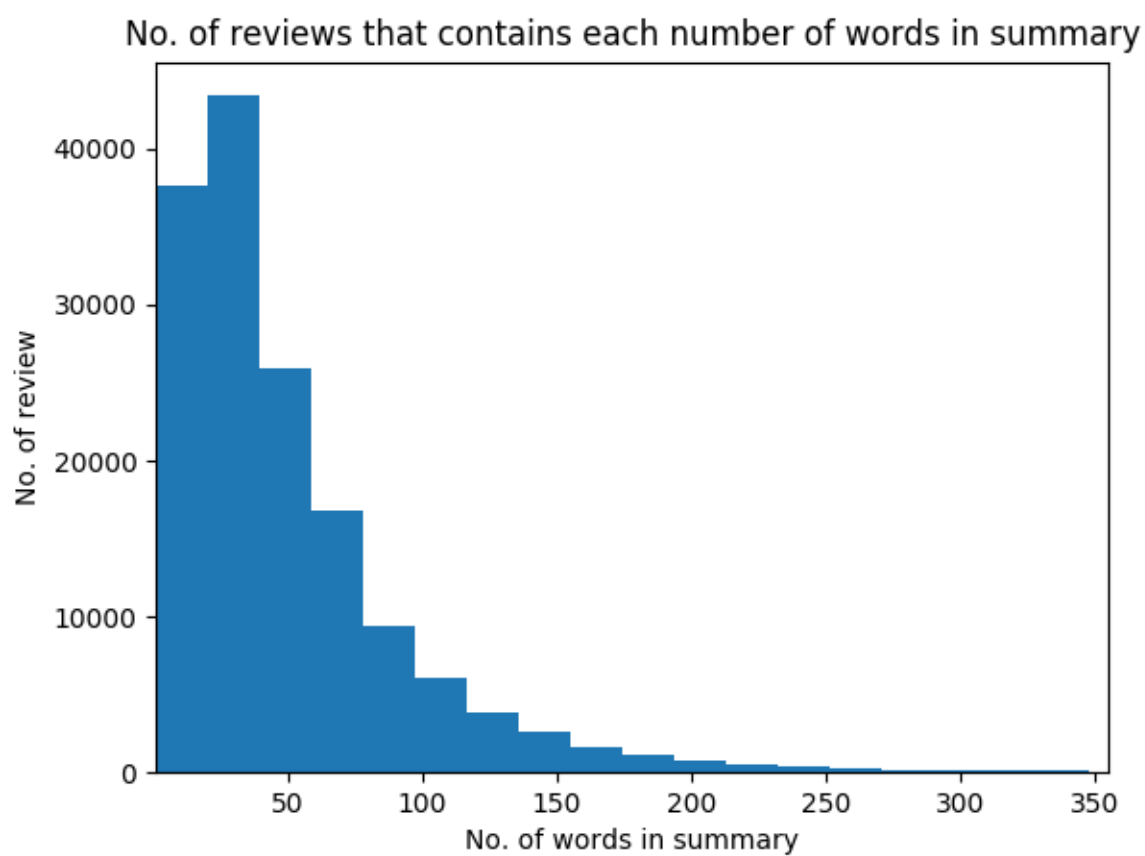




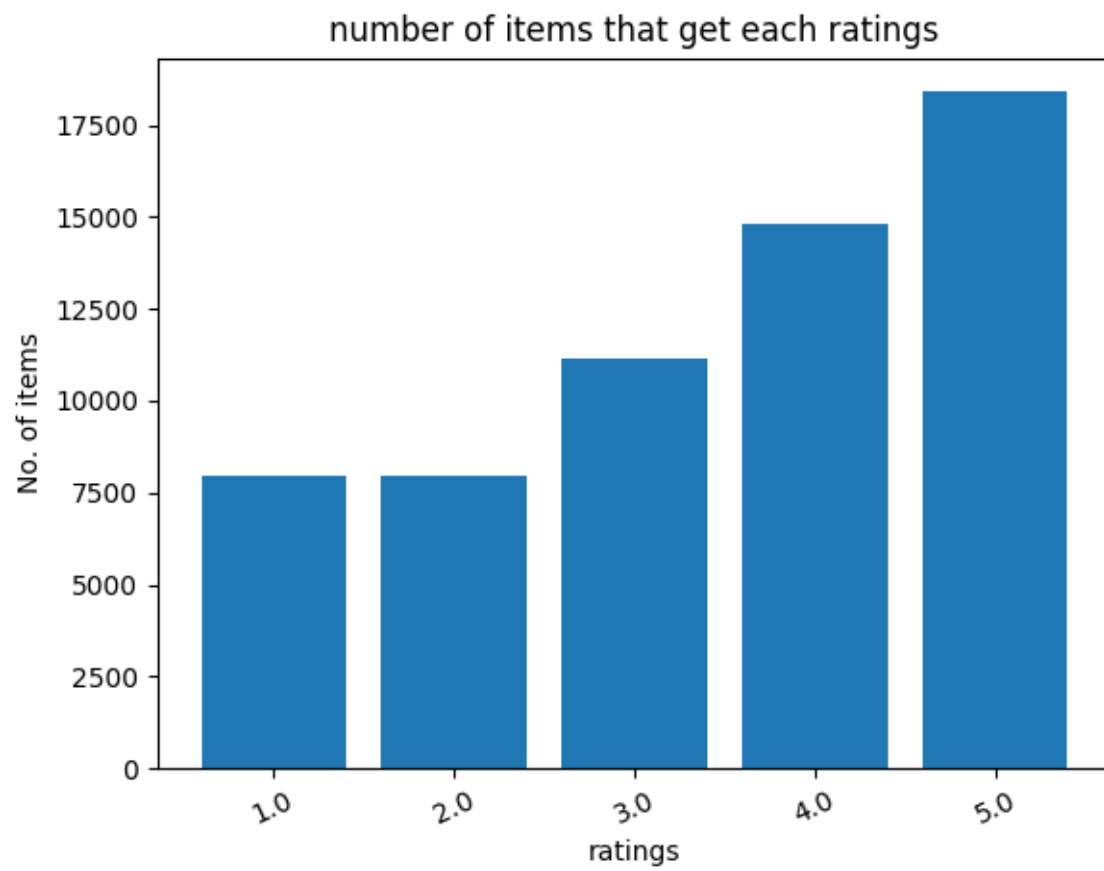


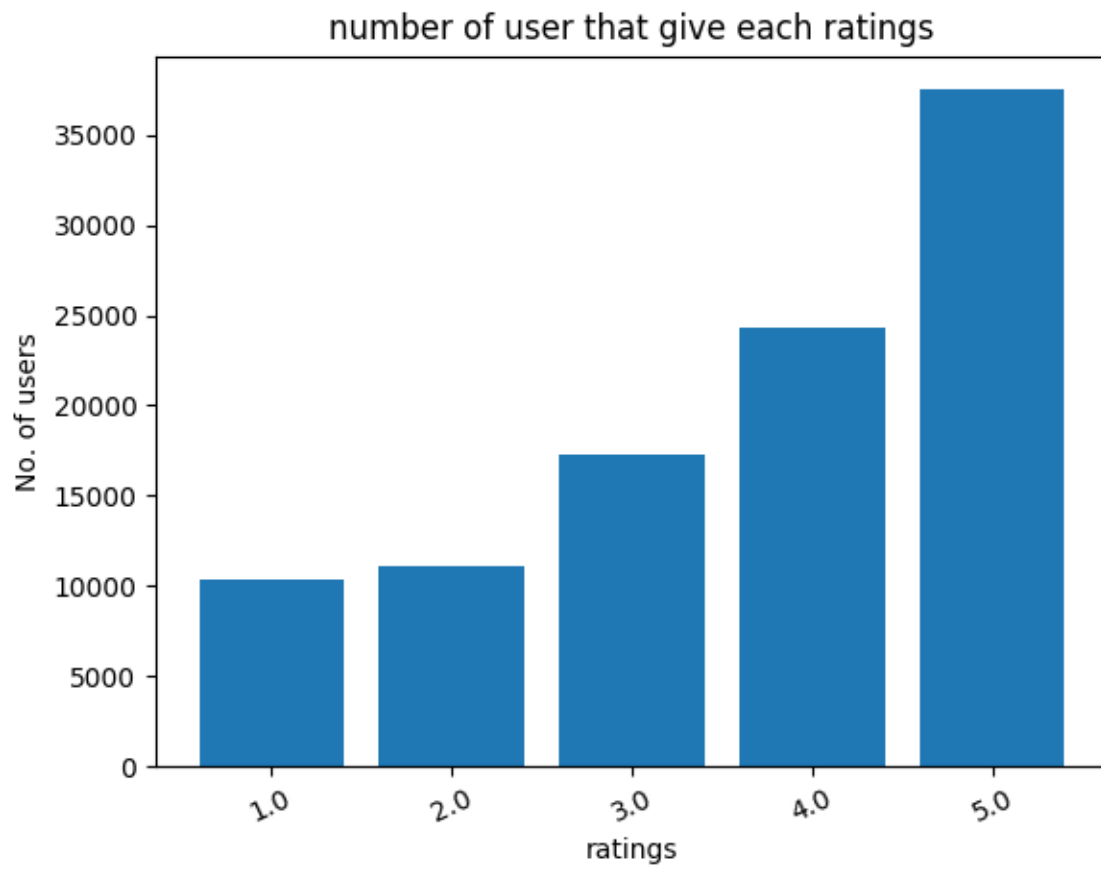


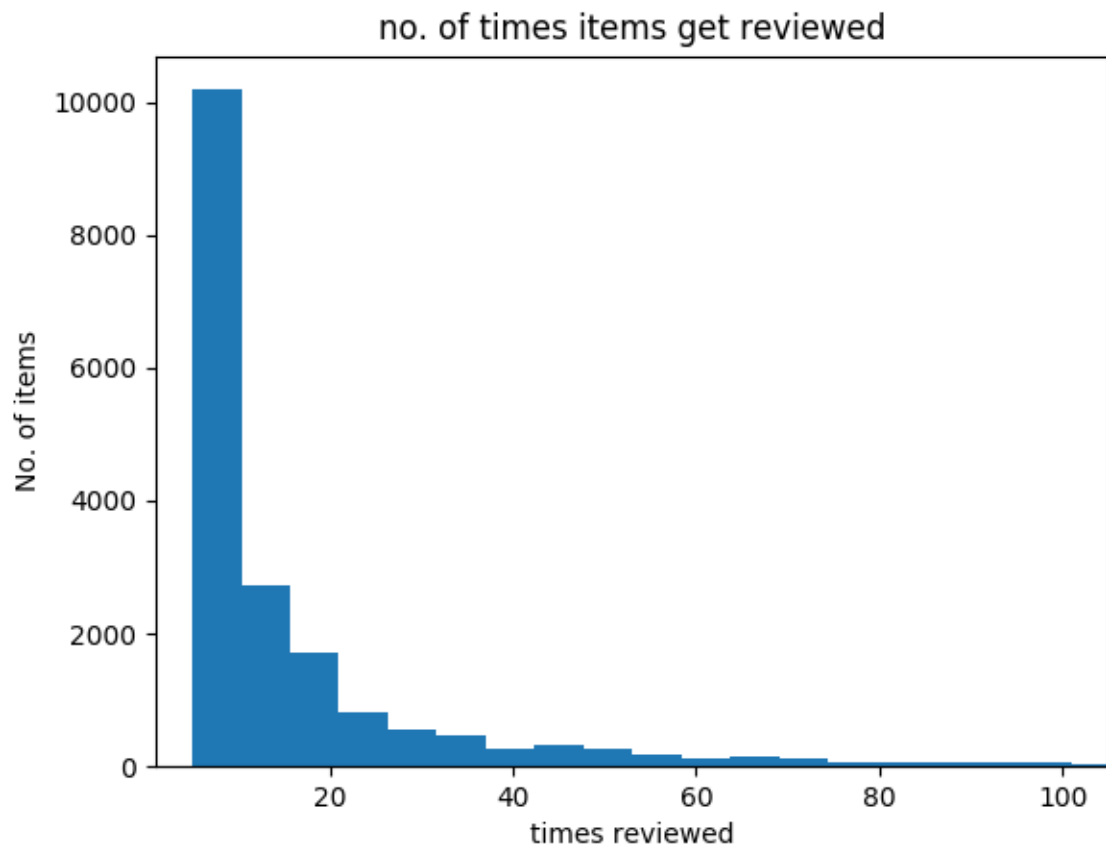


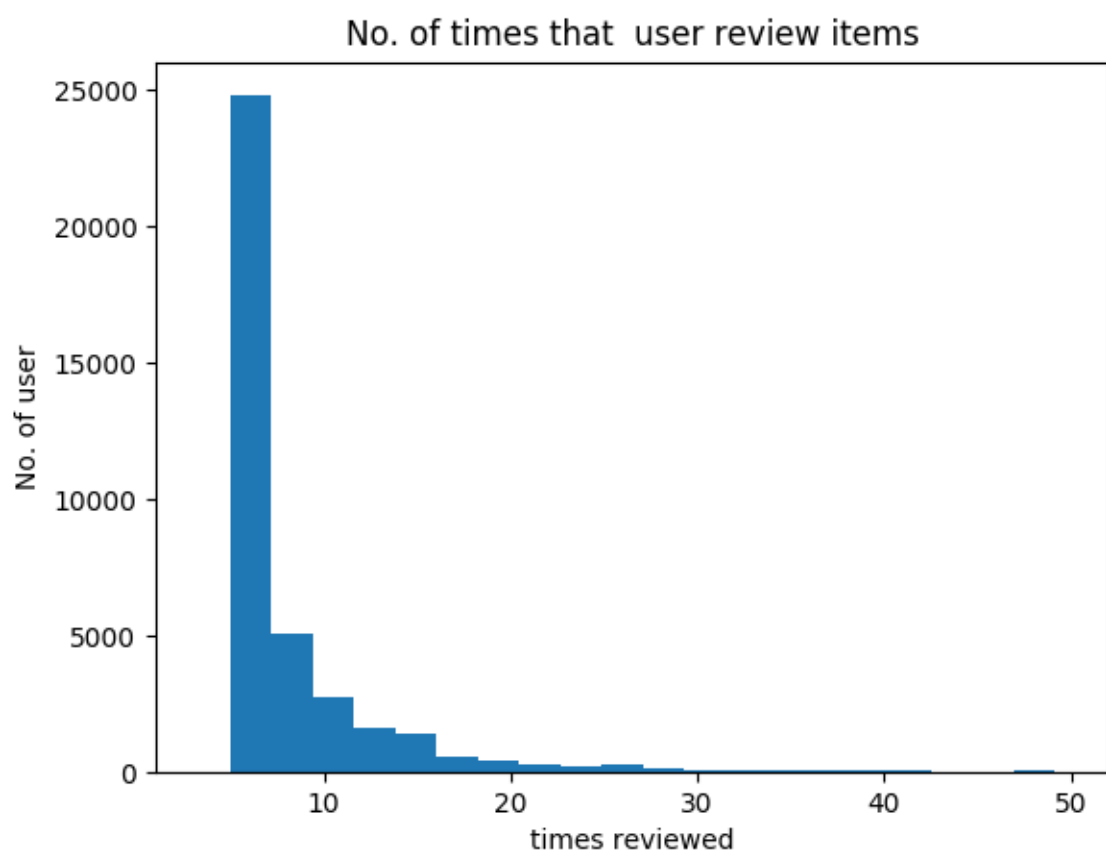


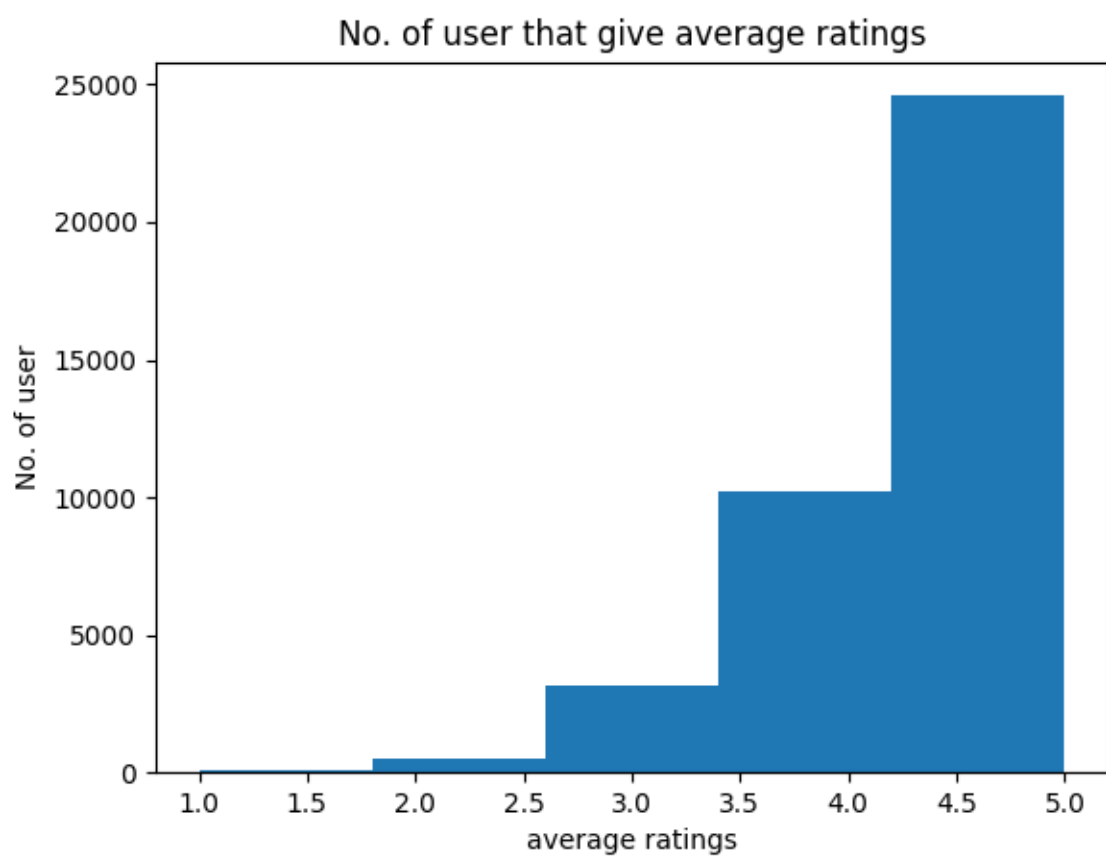
13)Health and Personal care

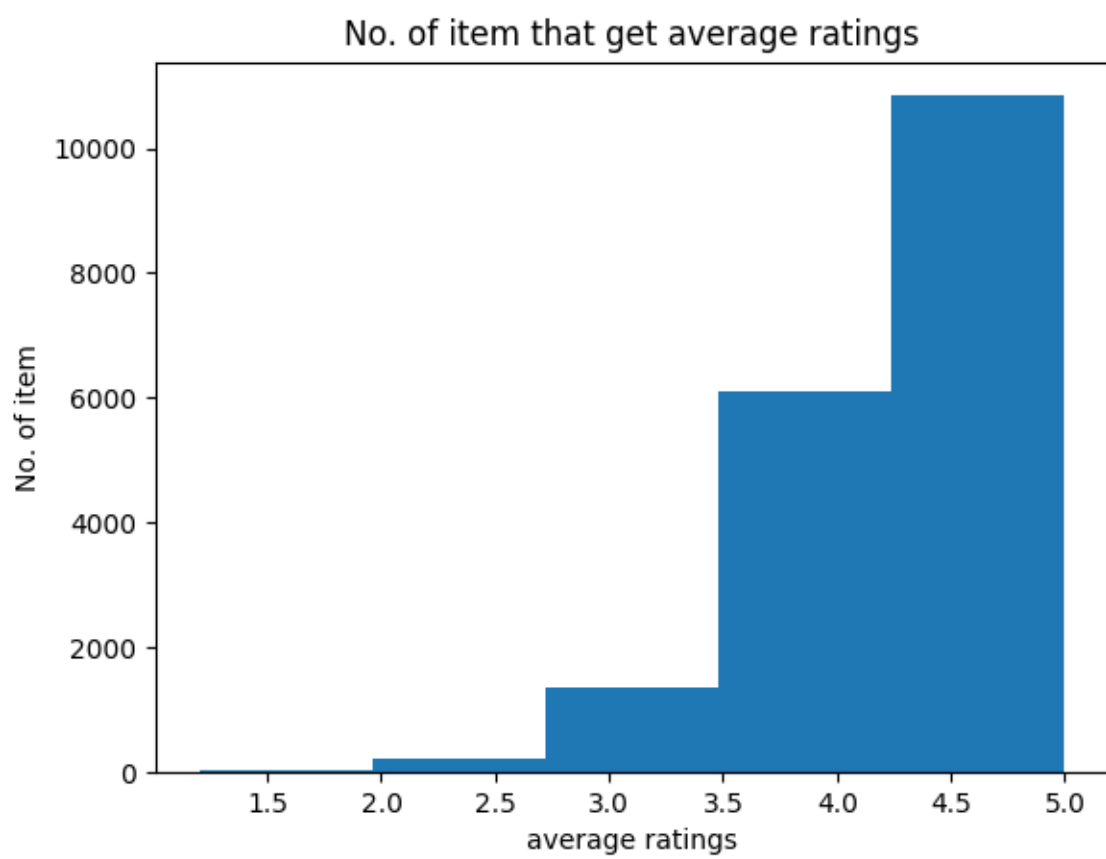


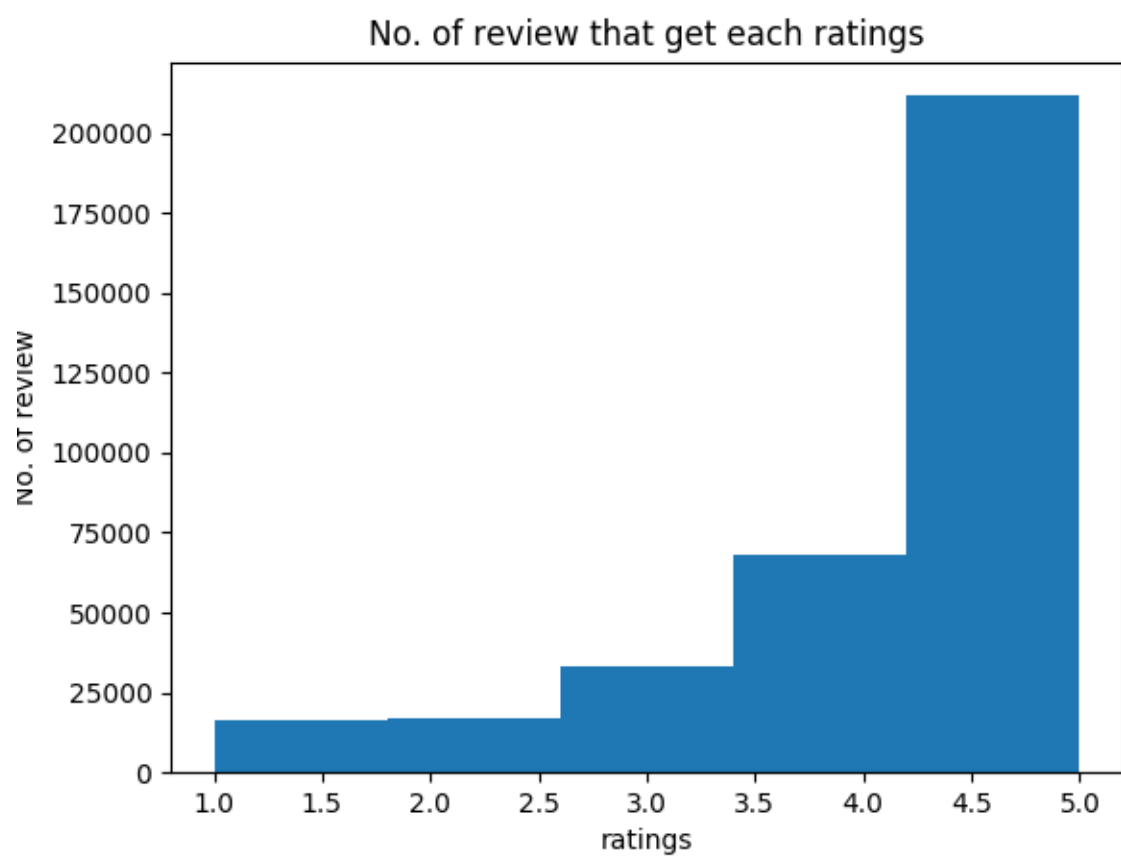


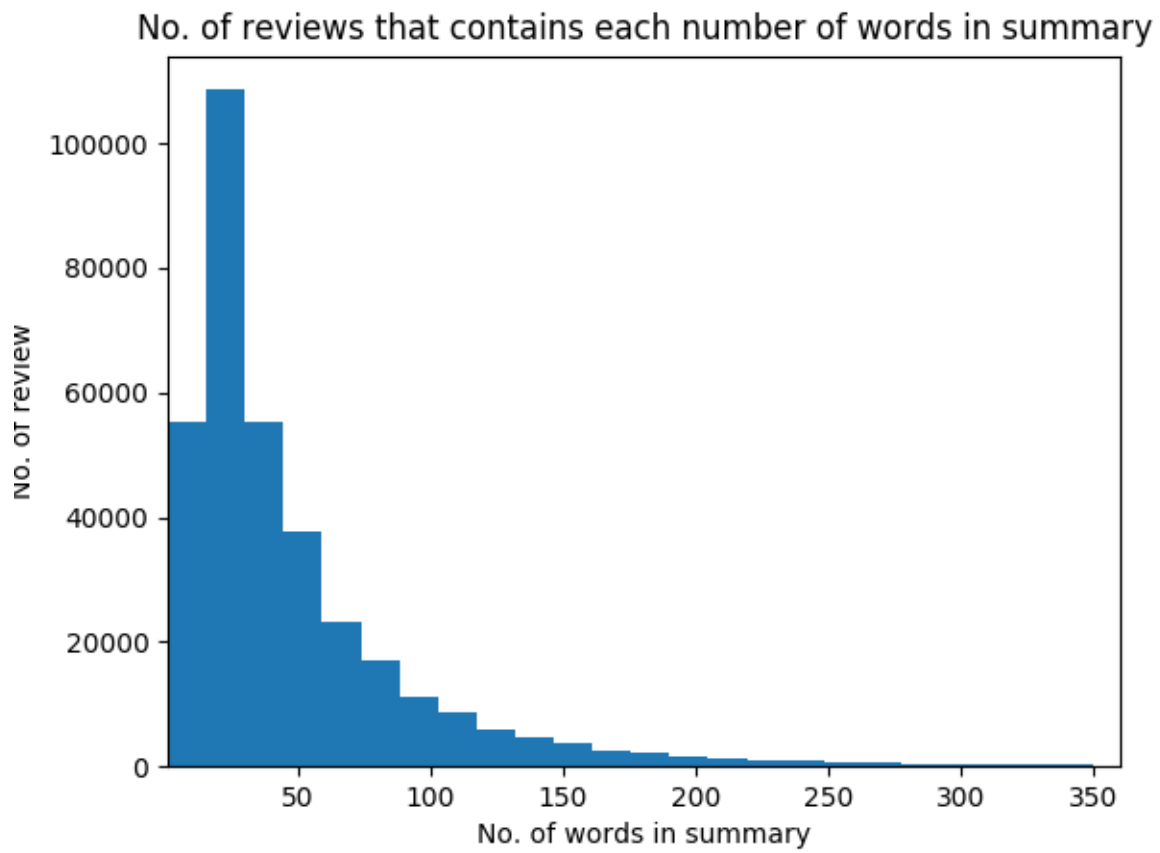




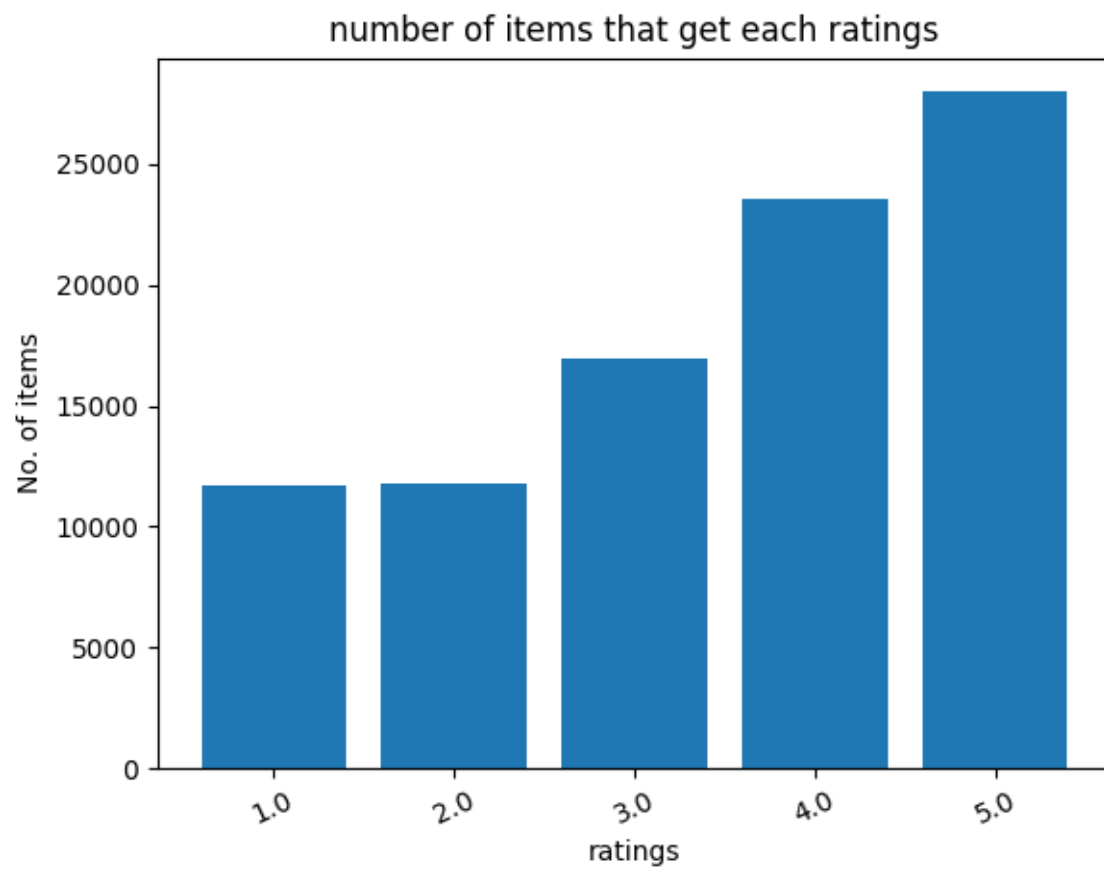


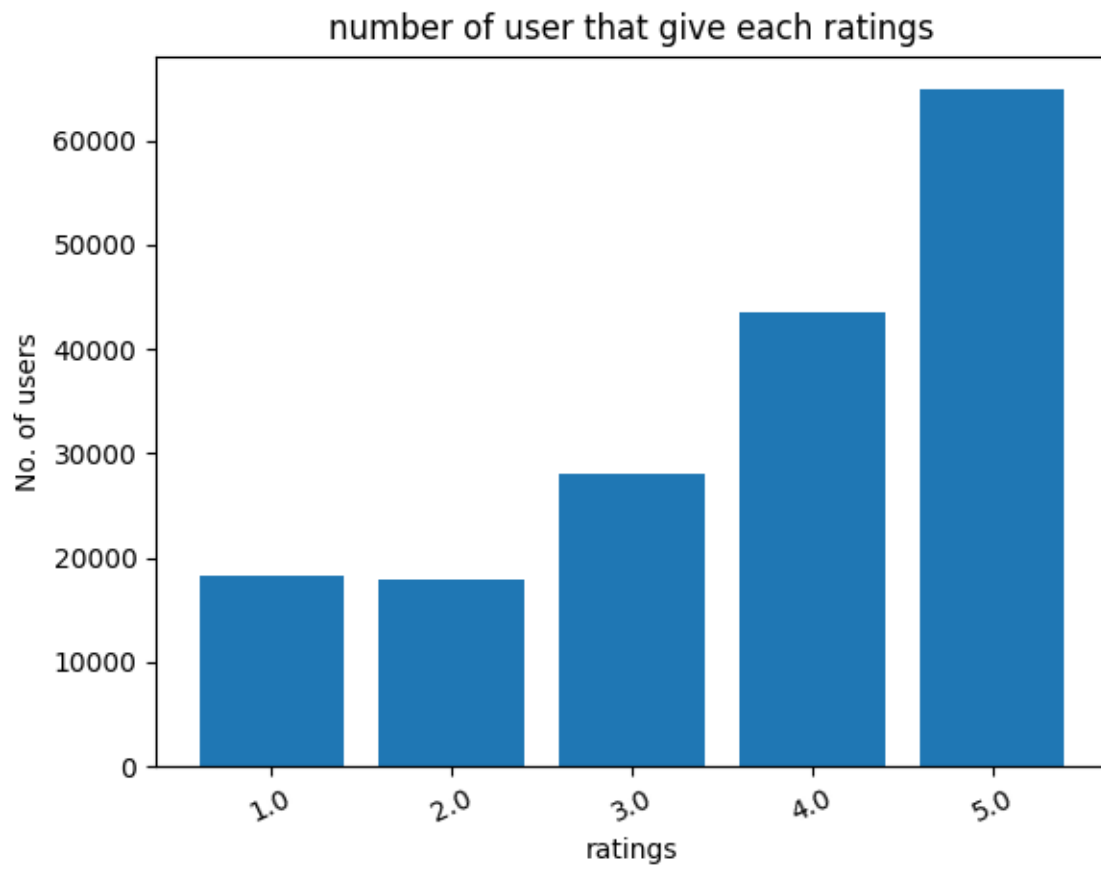


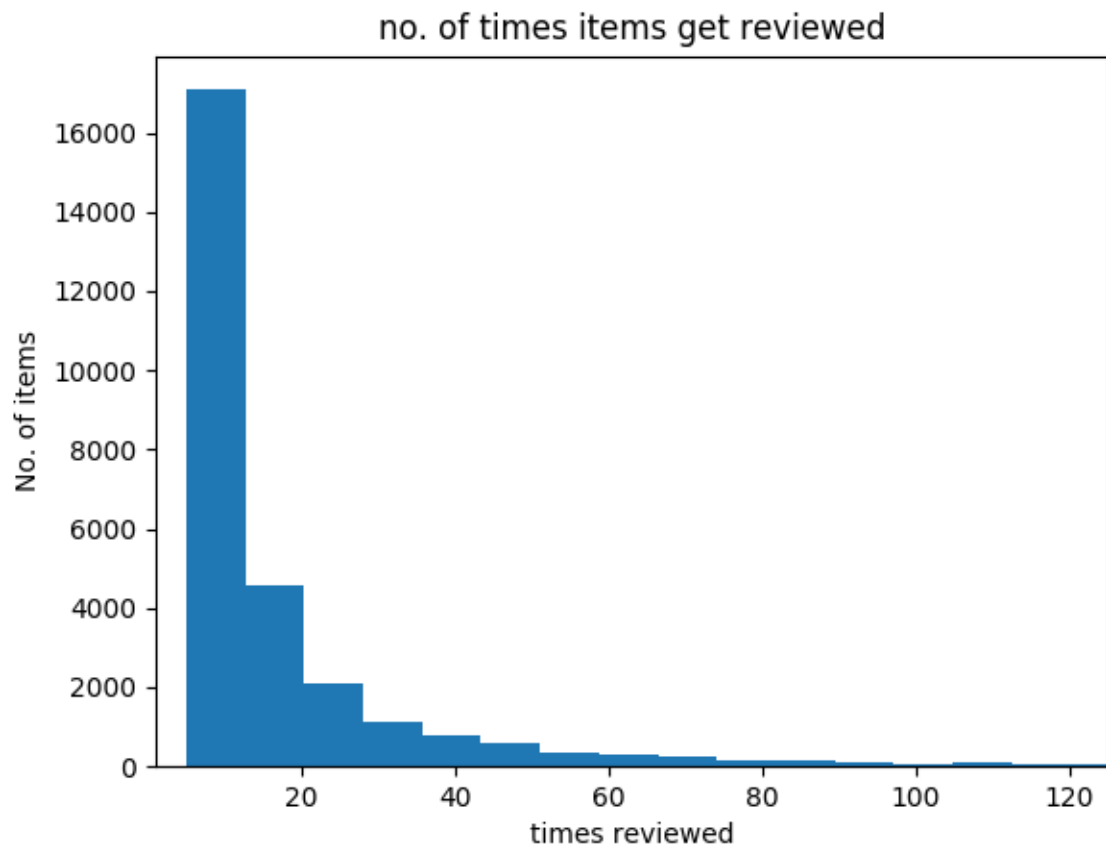


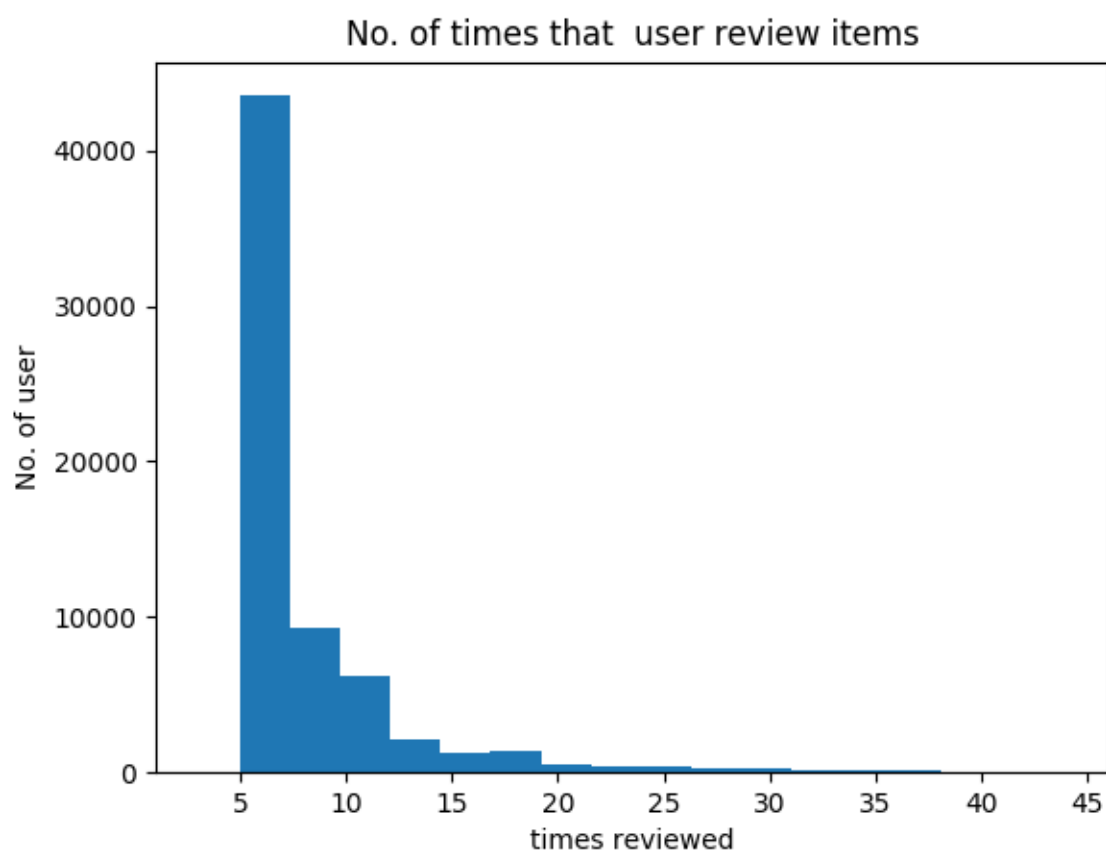


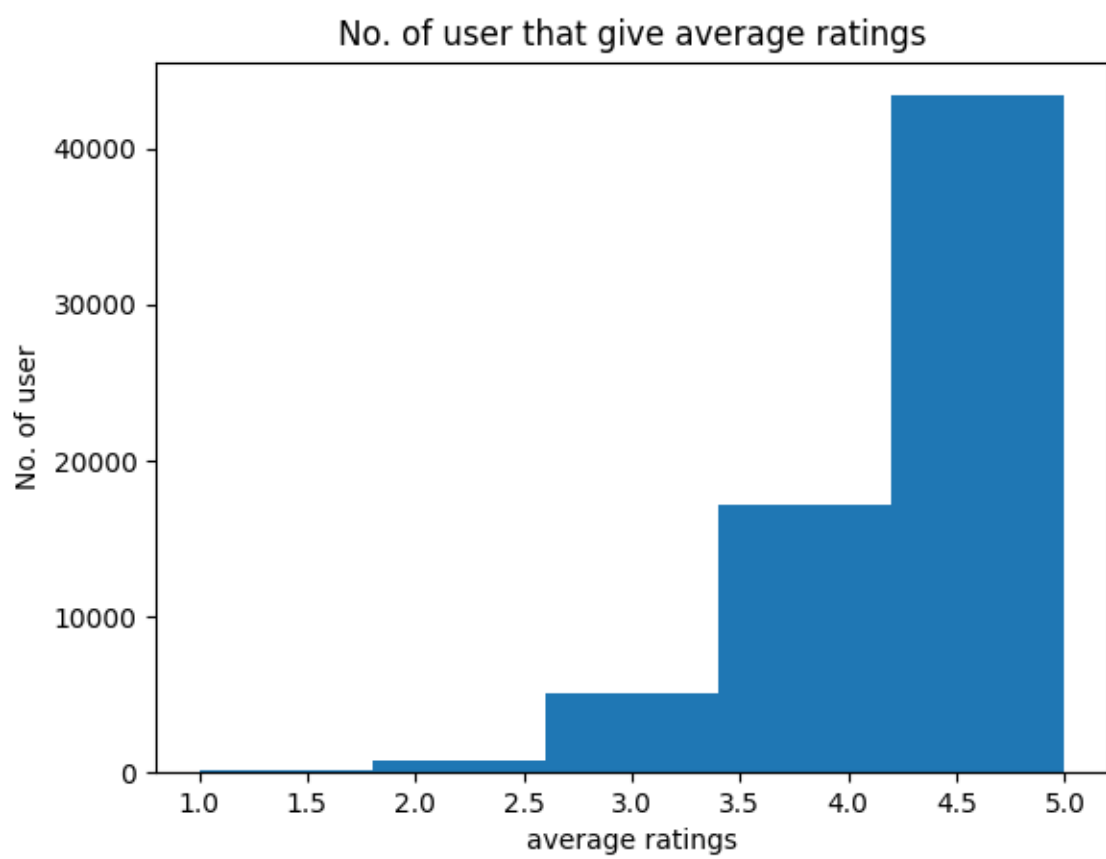
14)Home and Kitchen

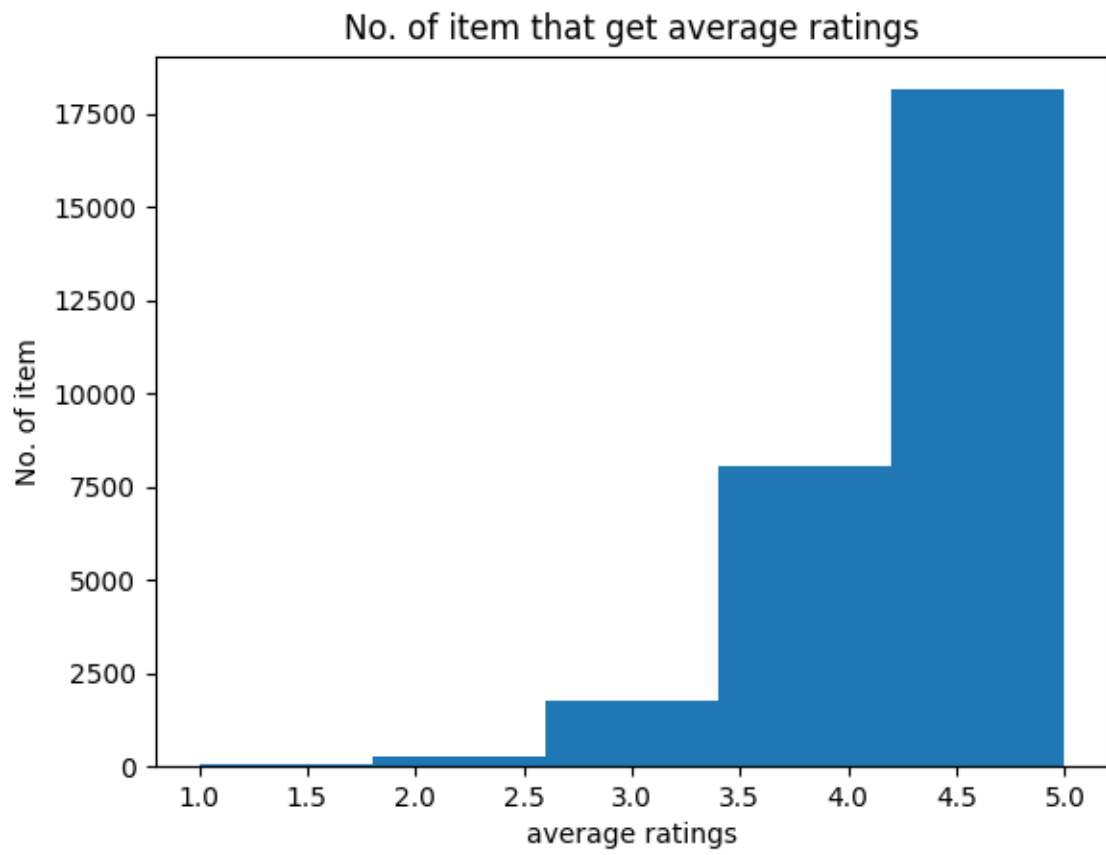


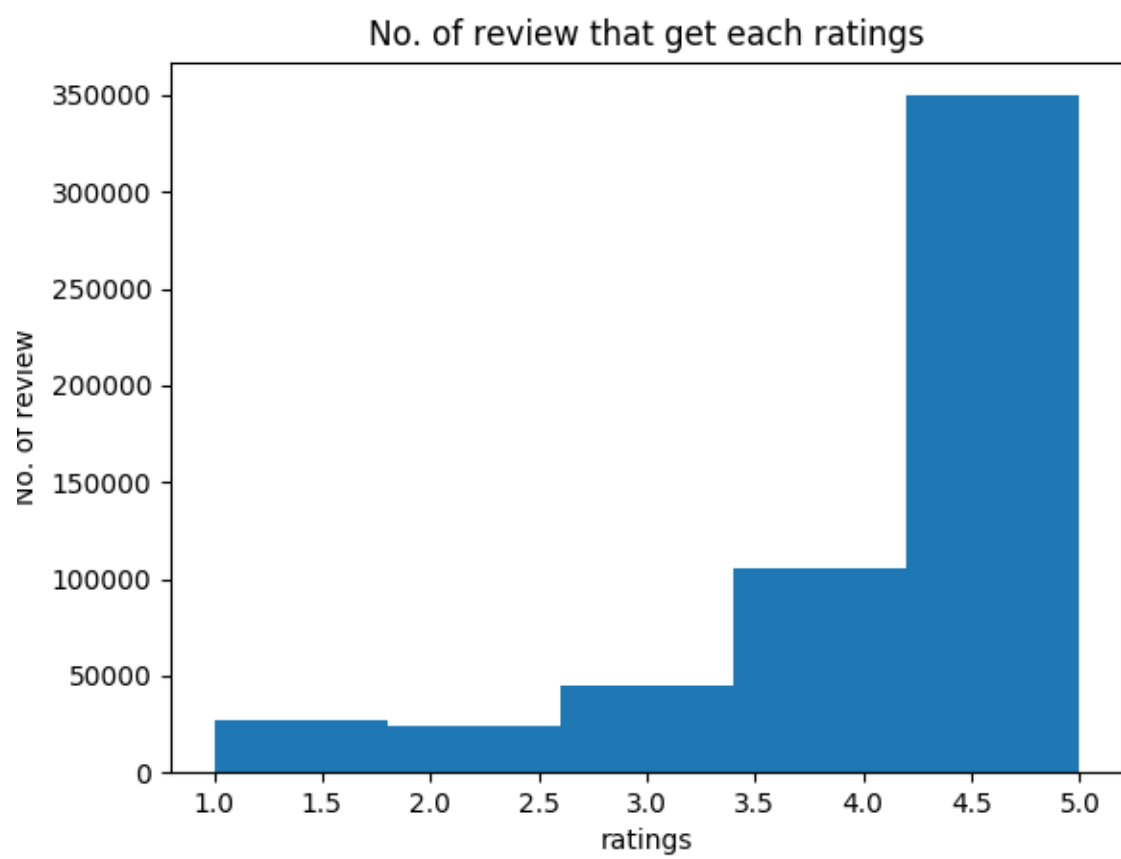


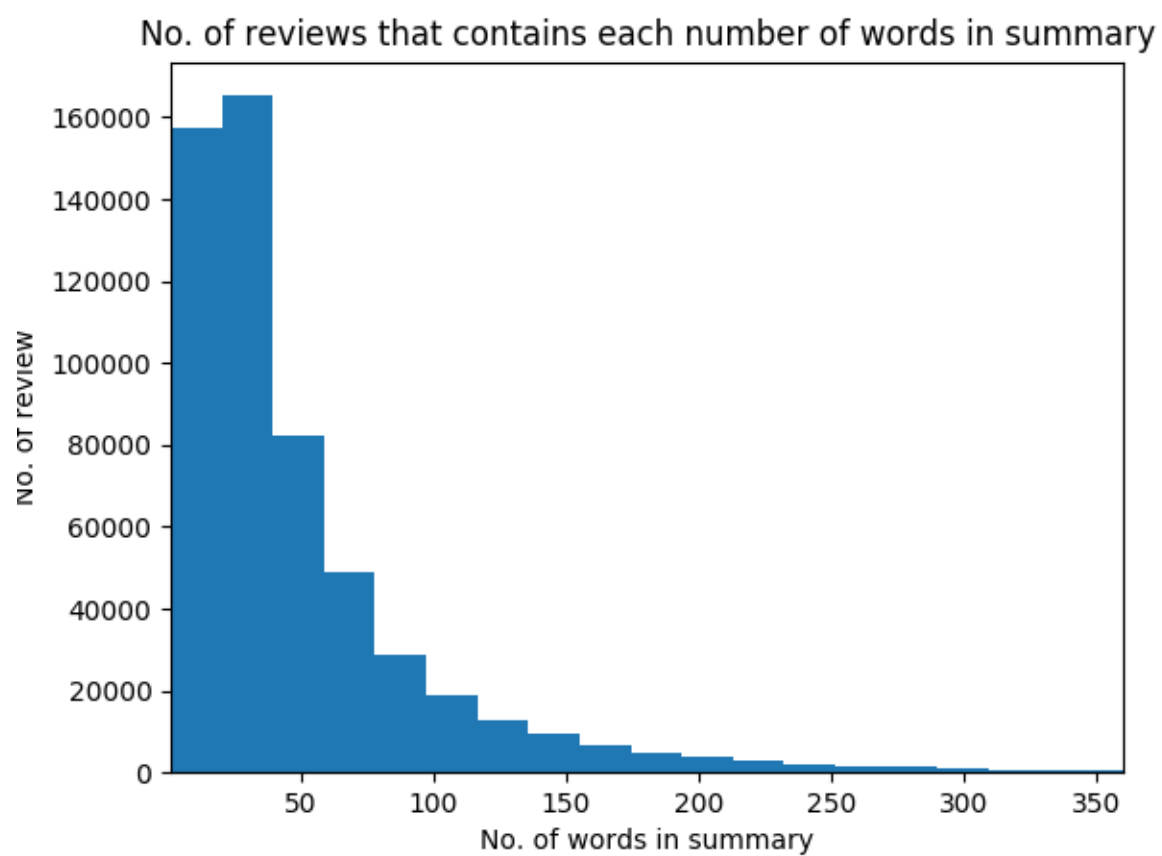




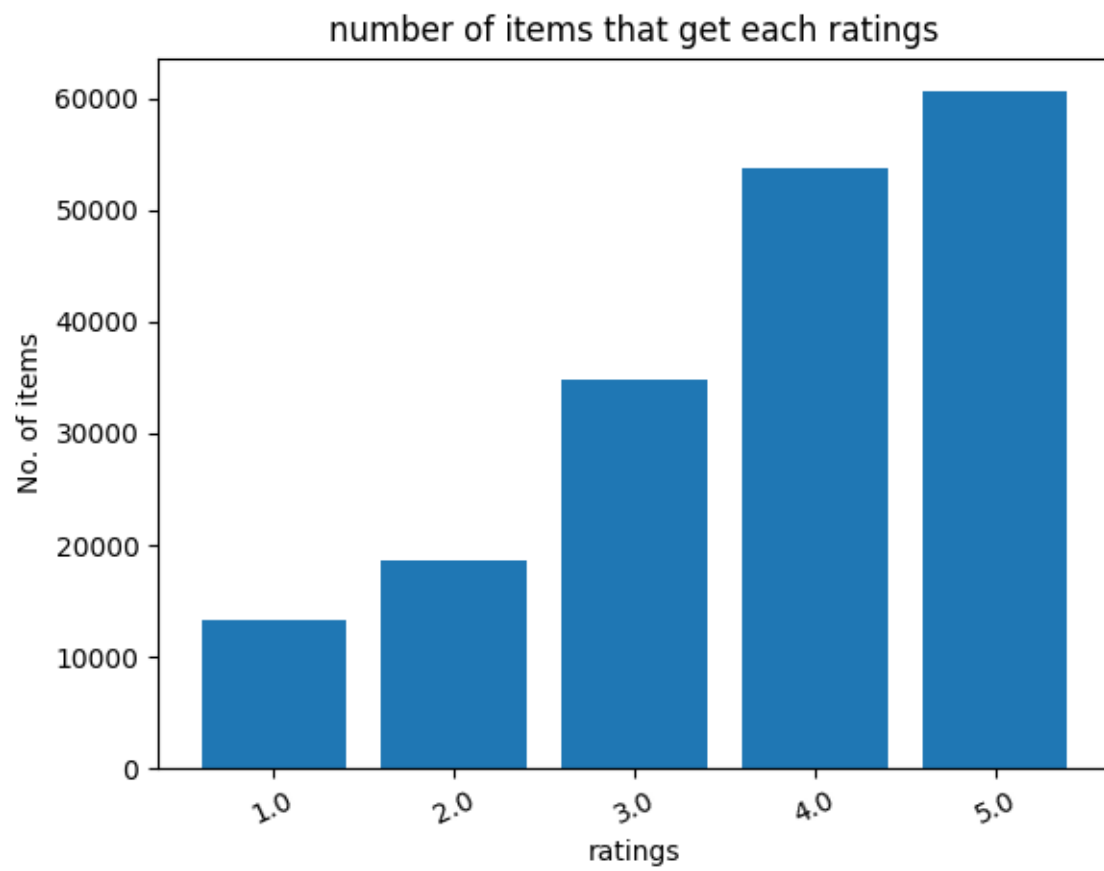


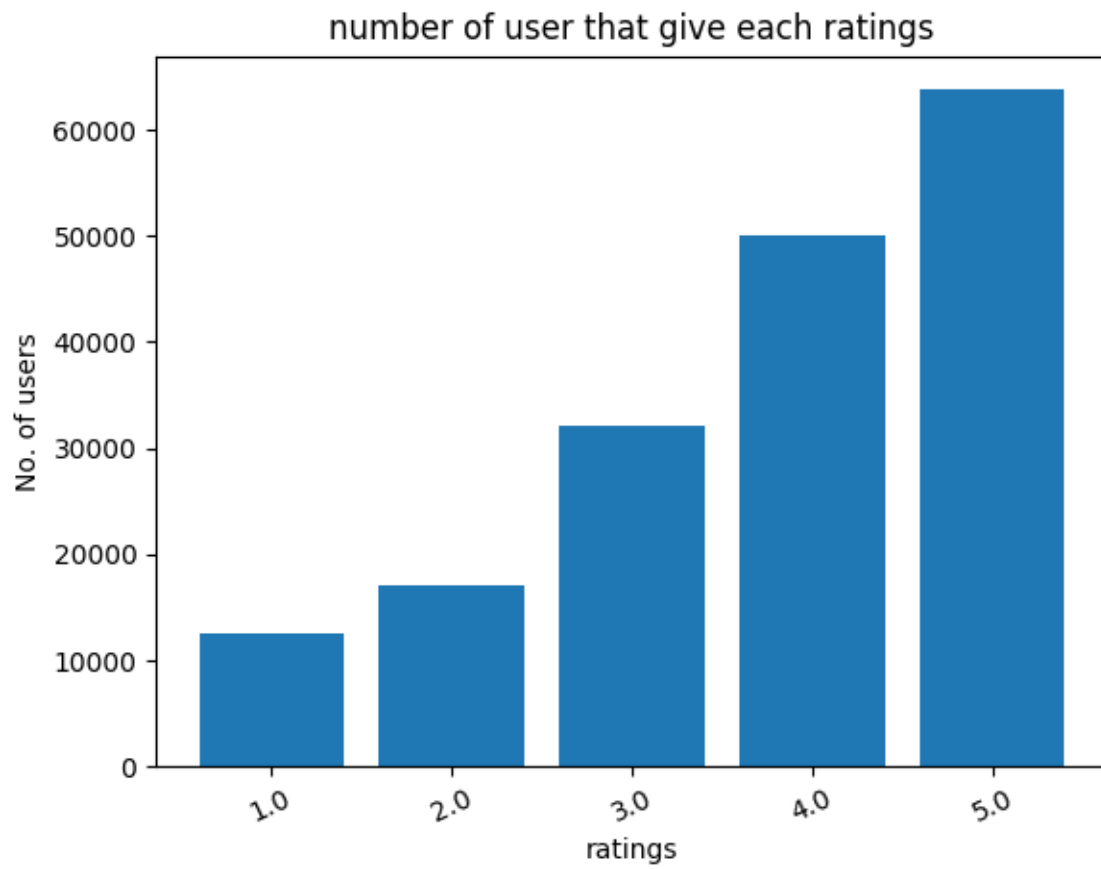


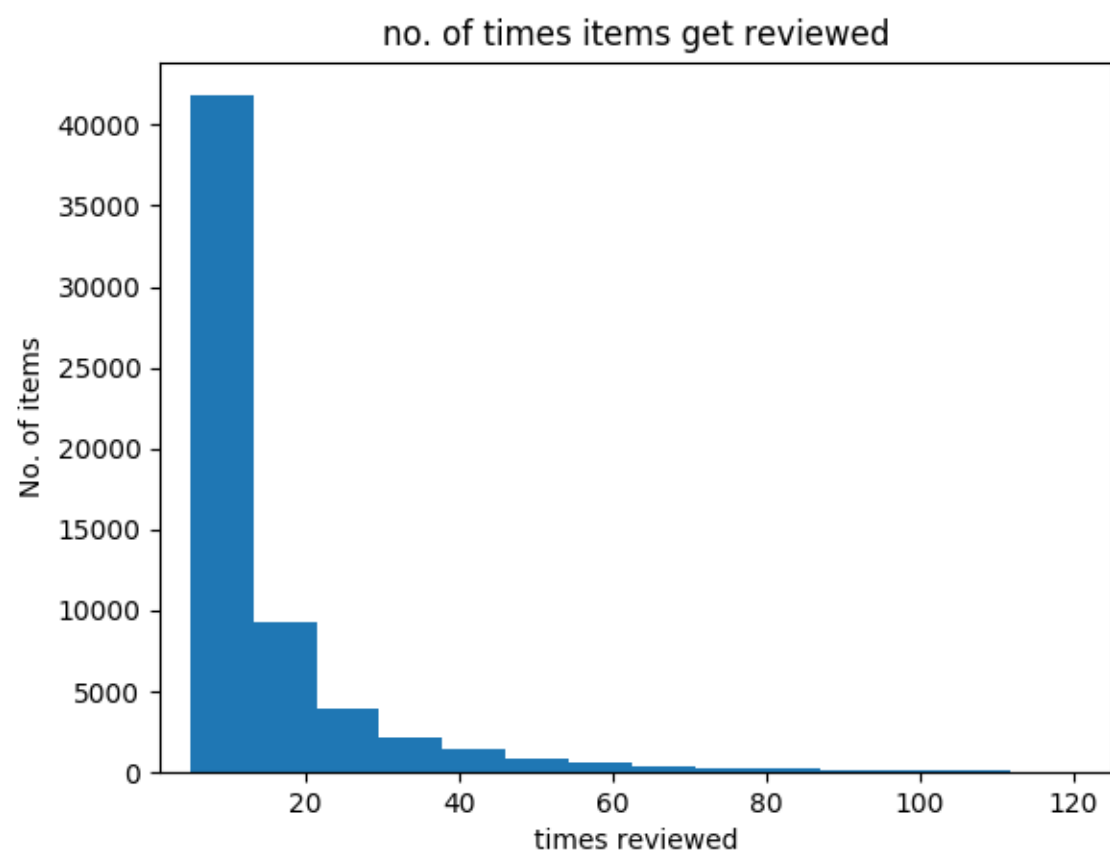


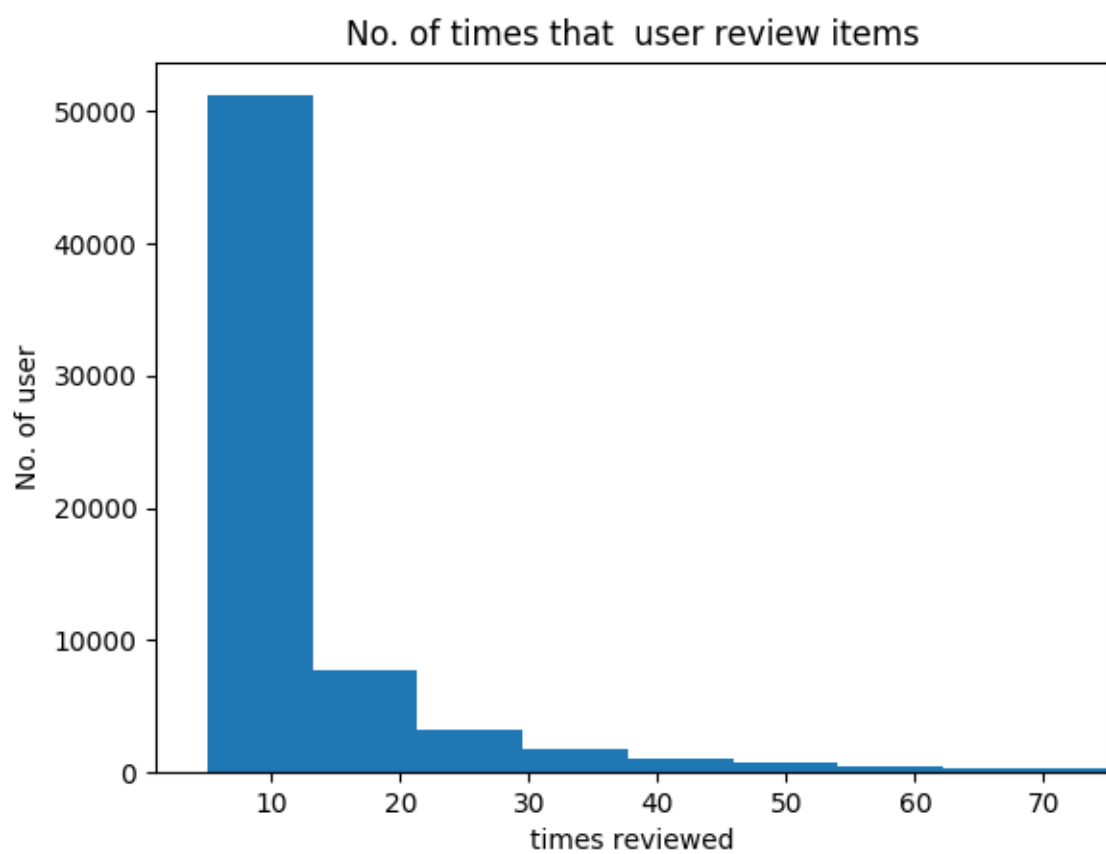


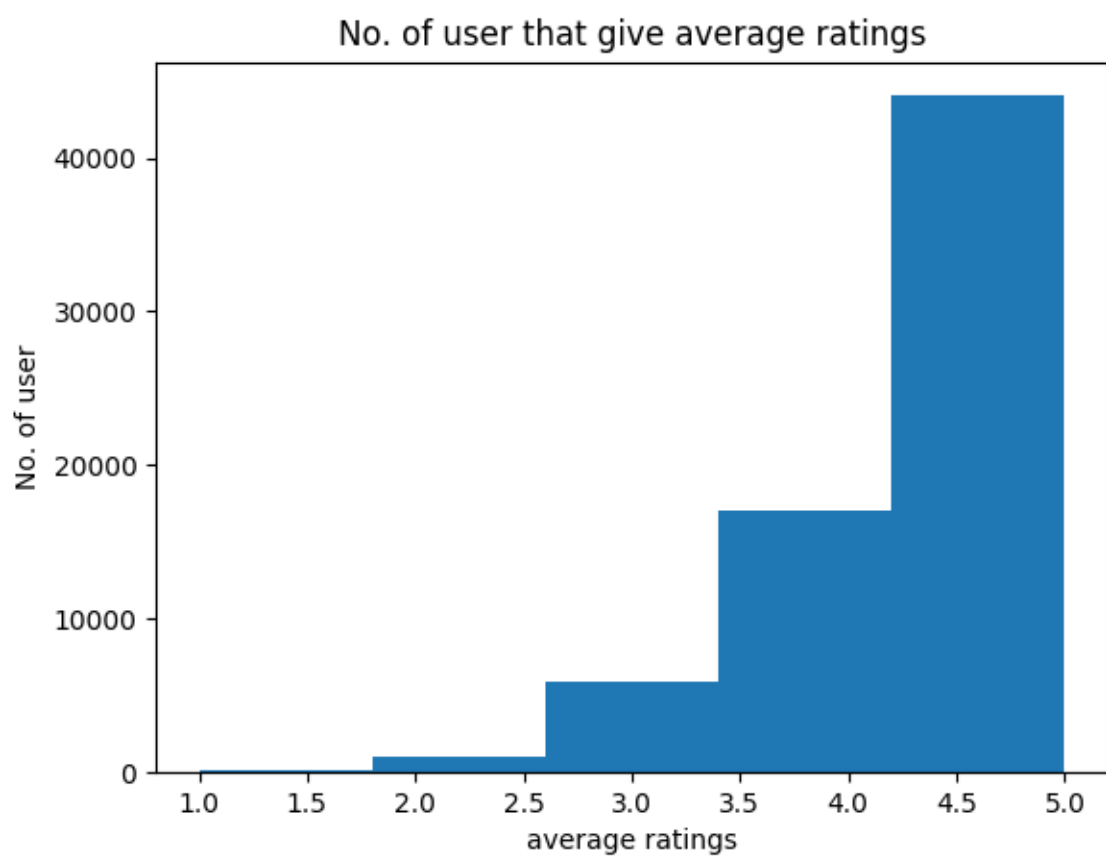
15)Kindle Store

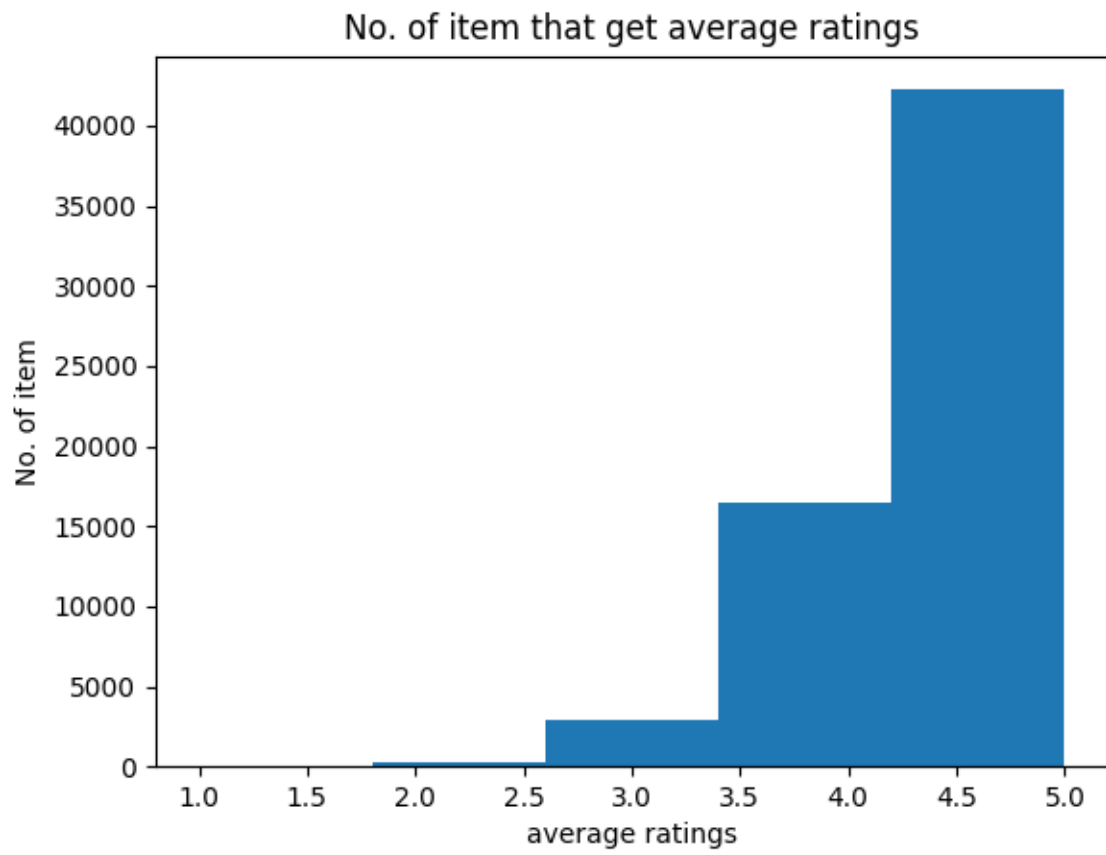


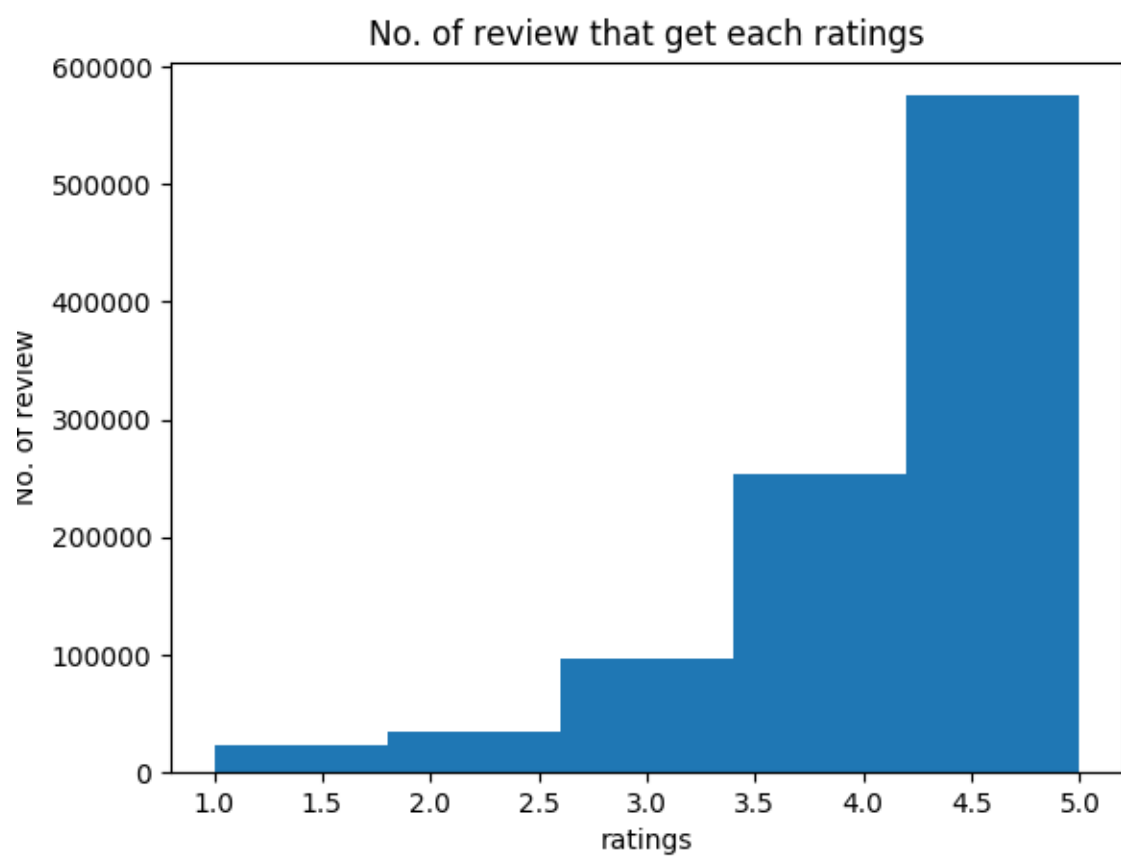


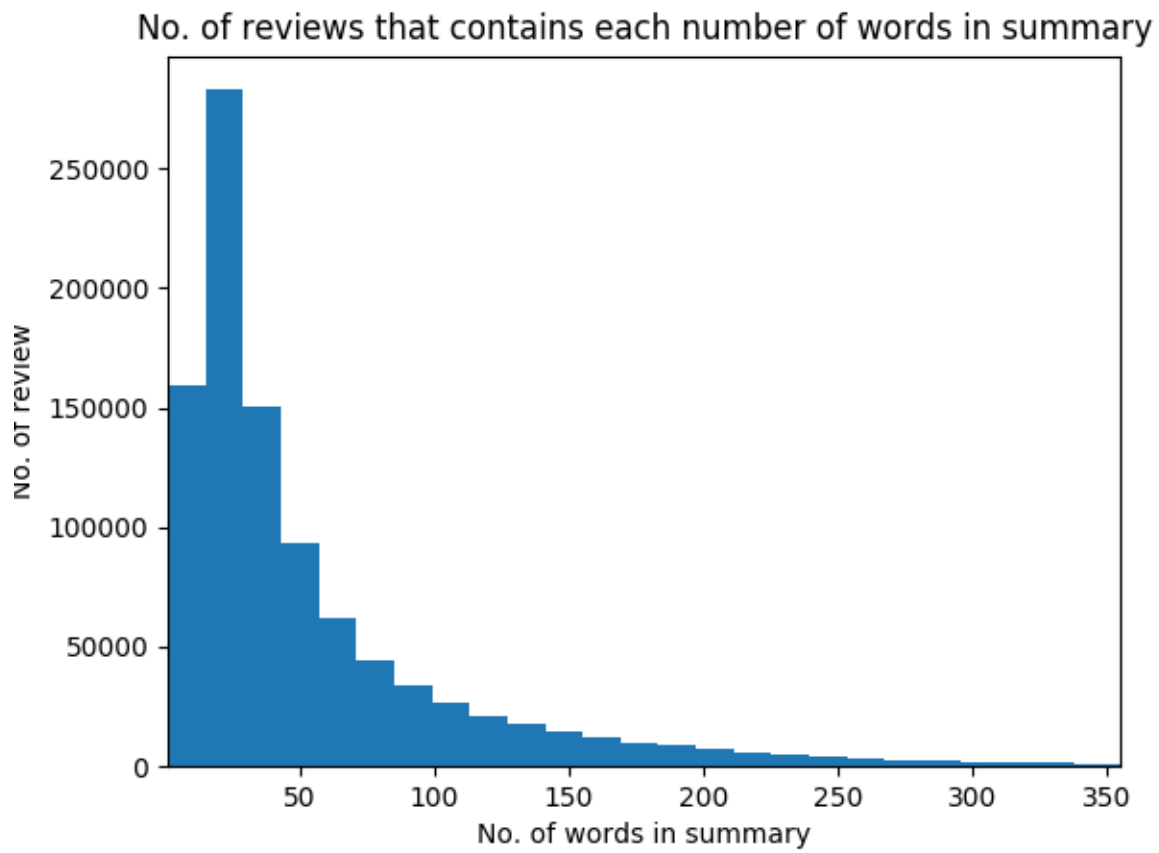




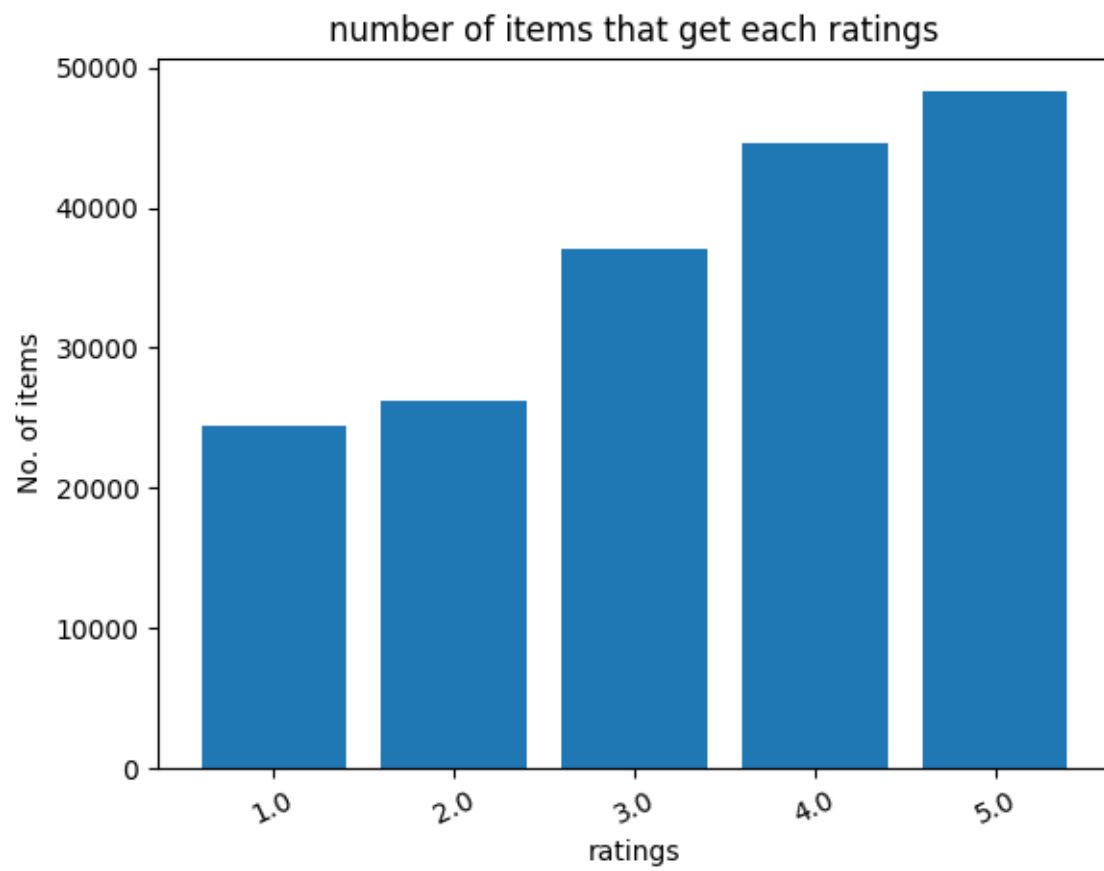


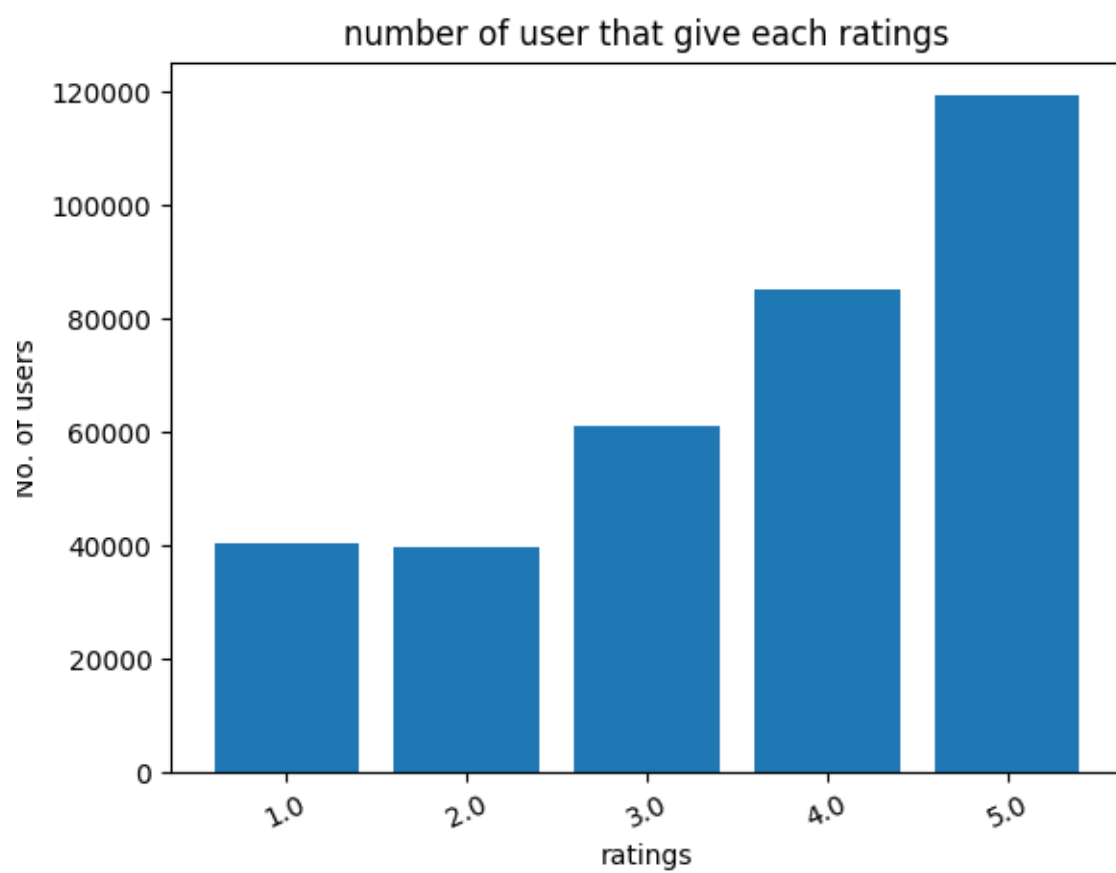


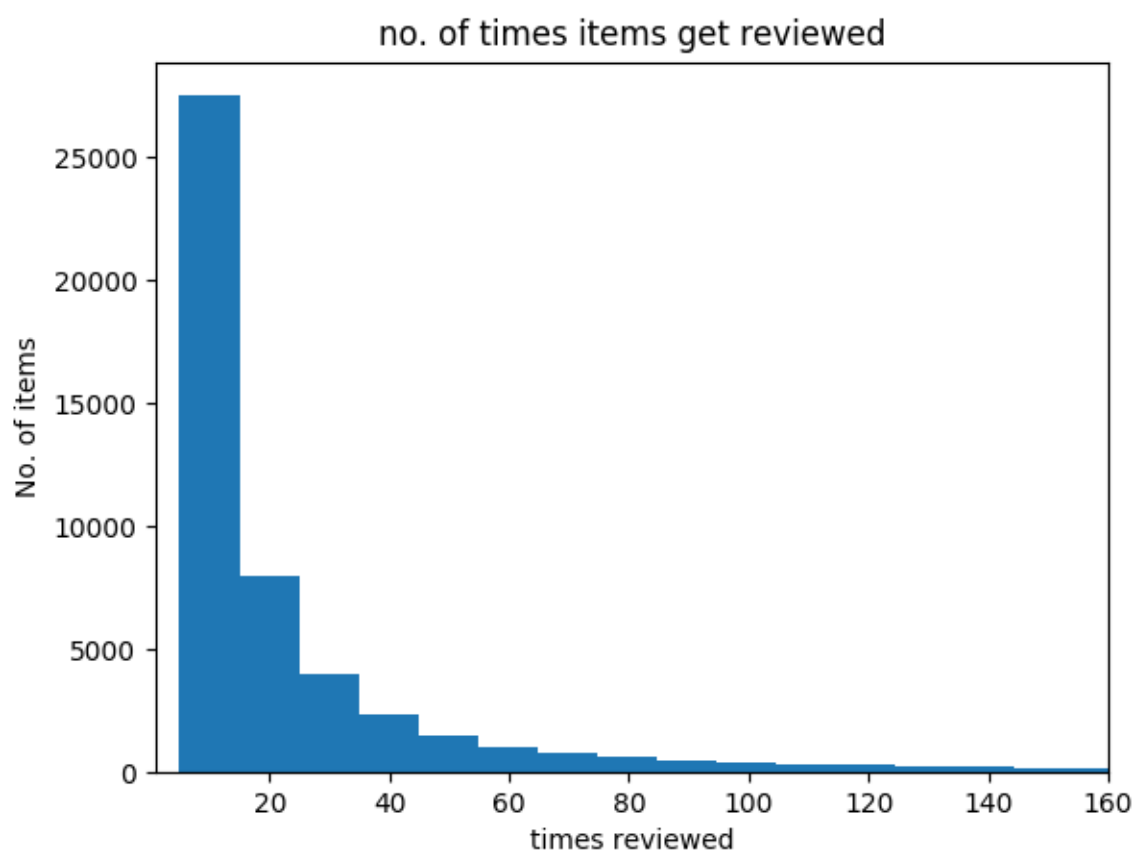


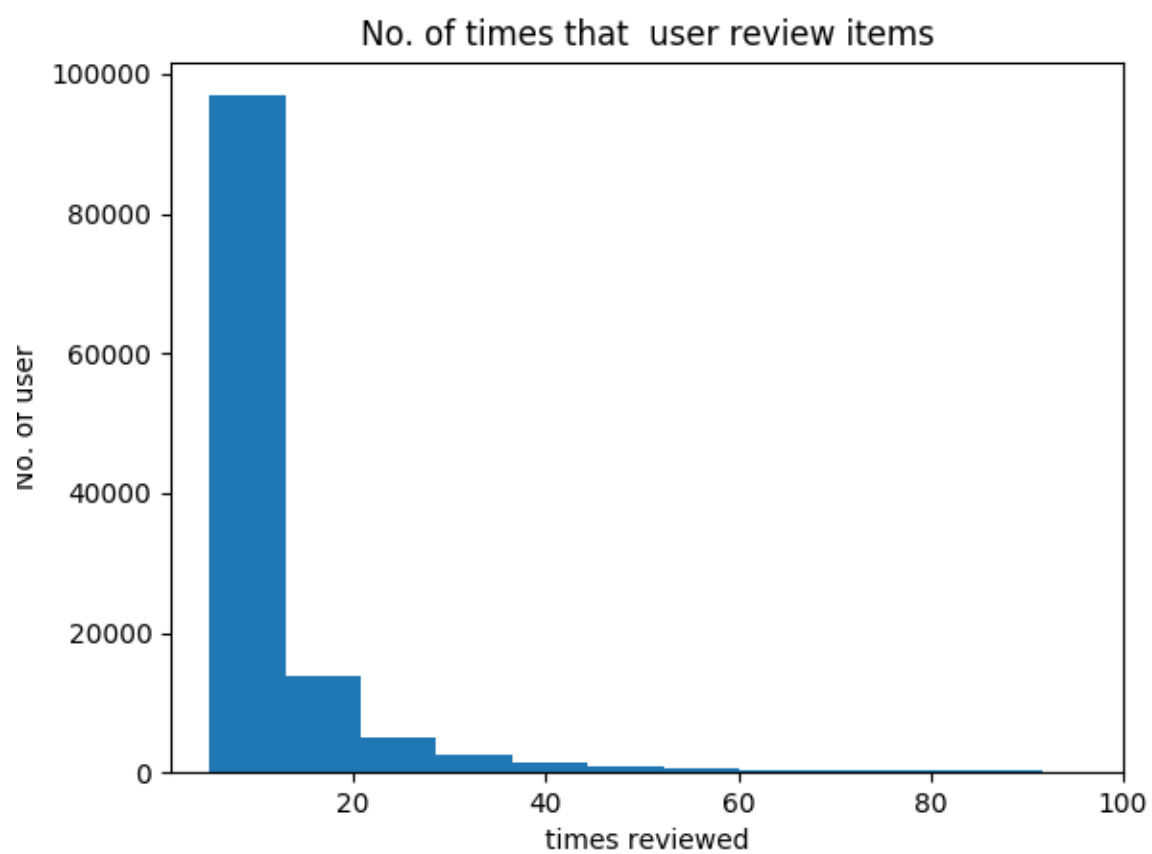


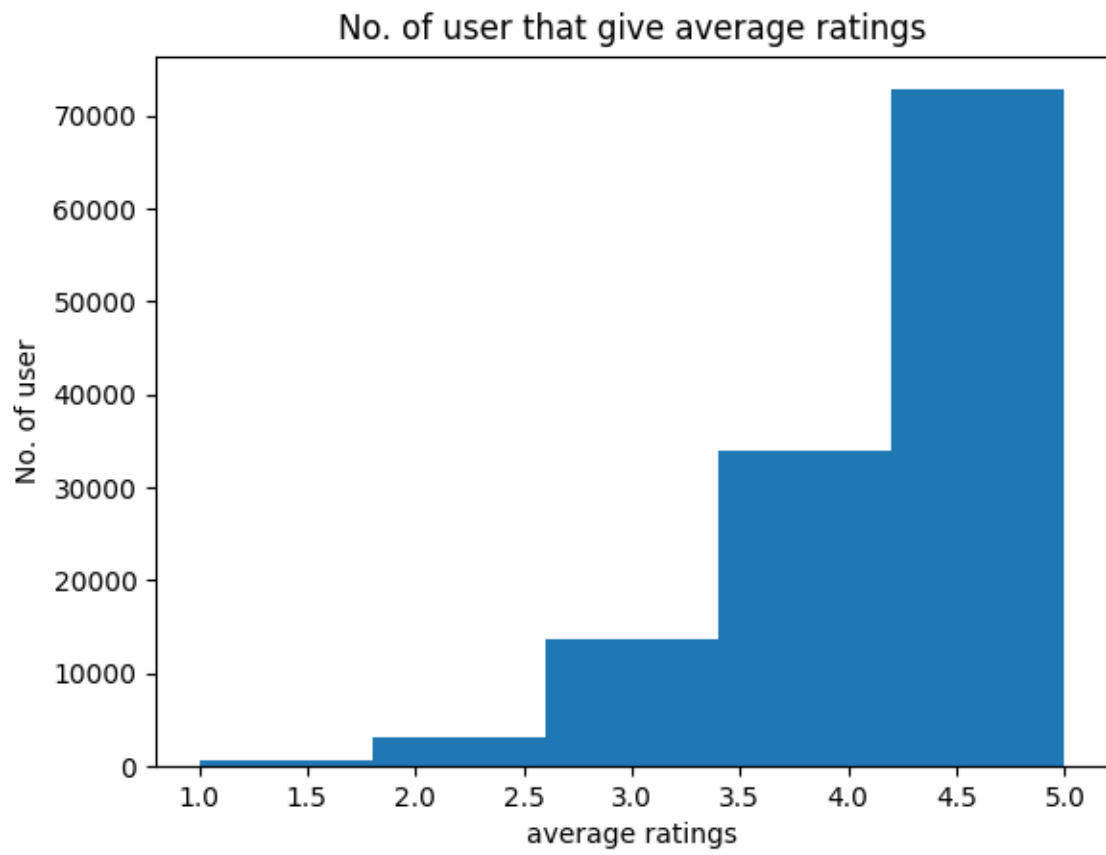
16)Movies and TV

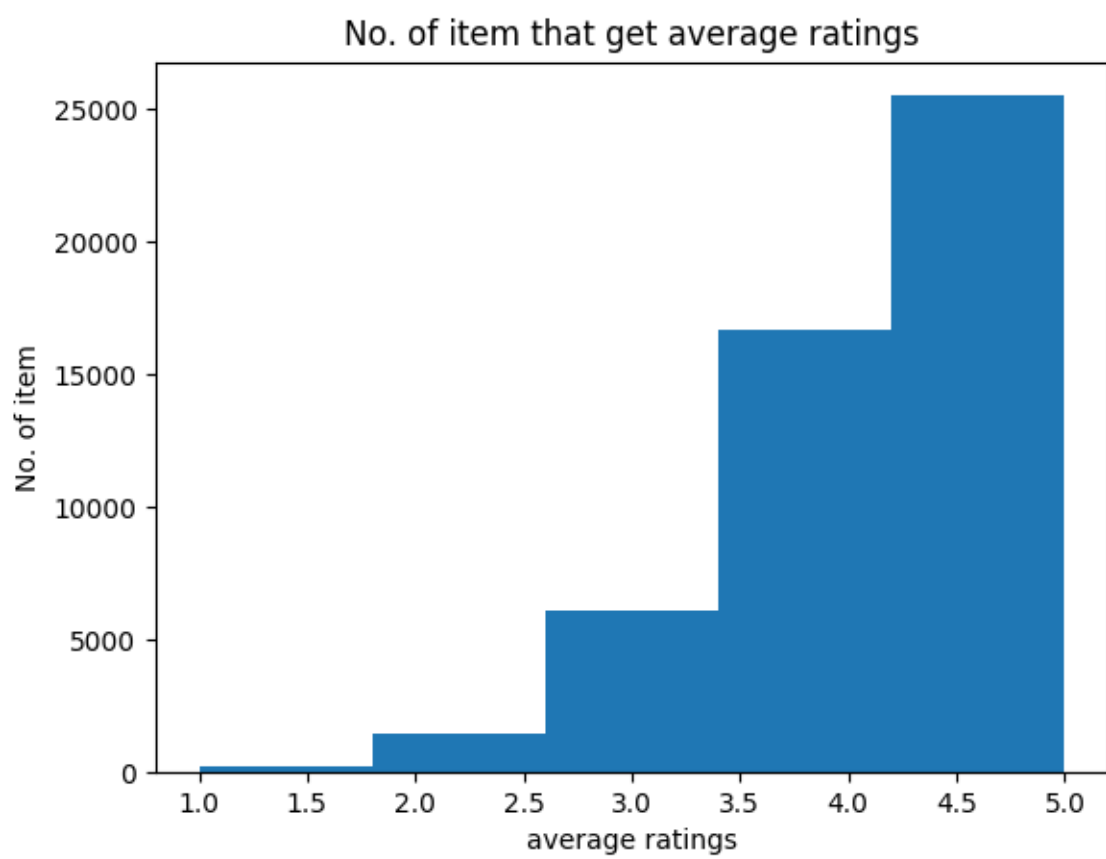


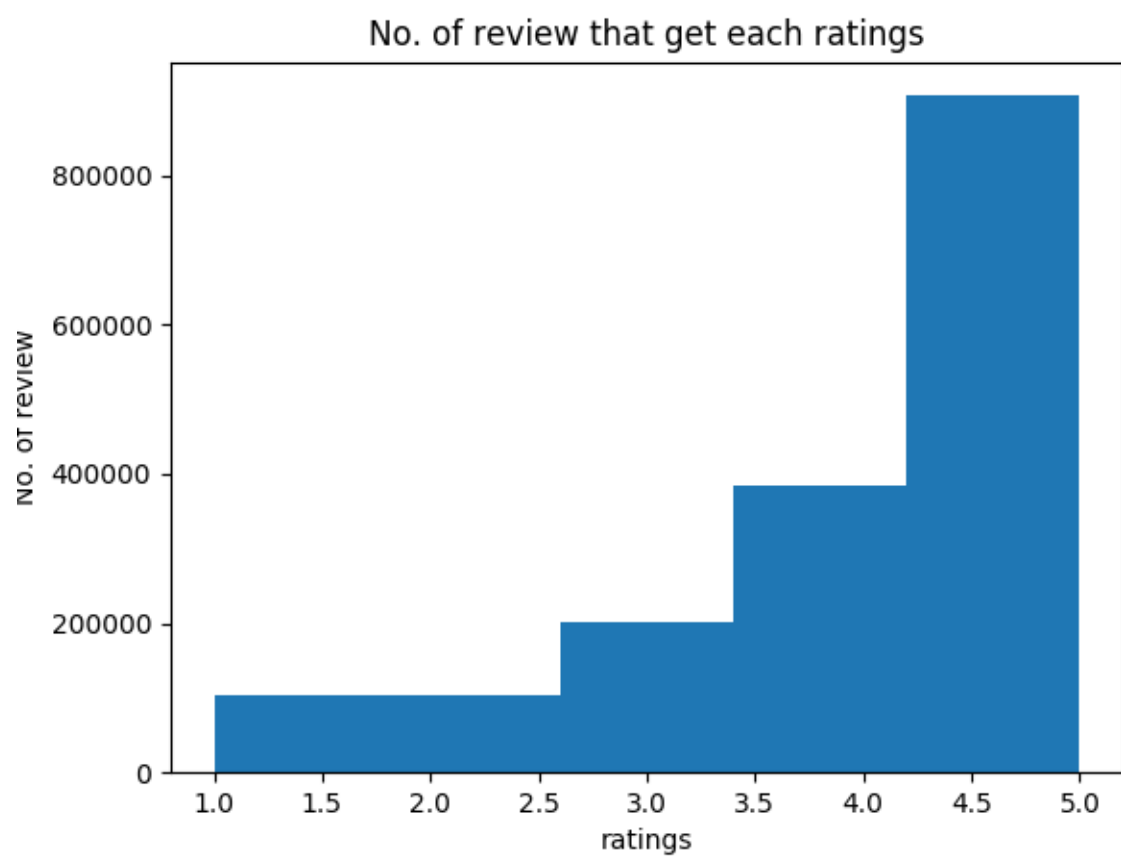


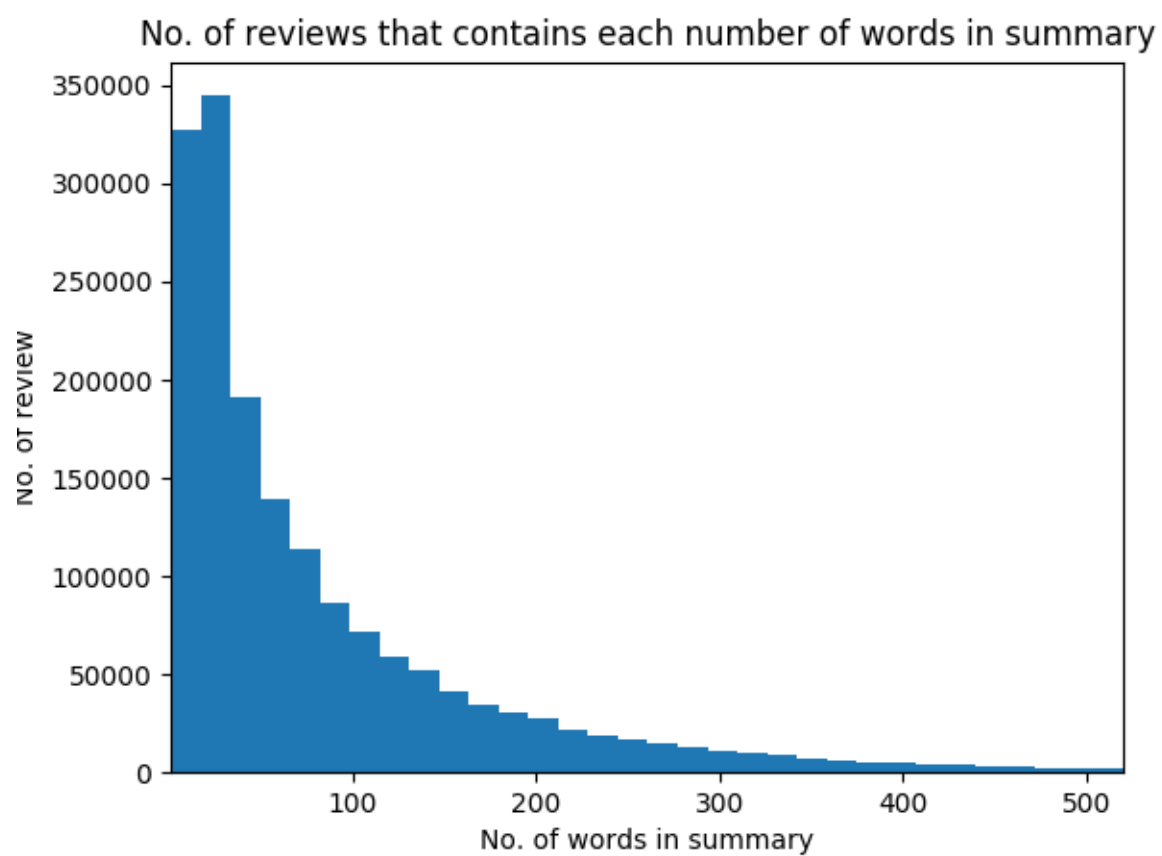




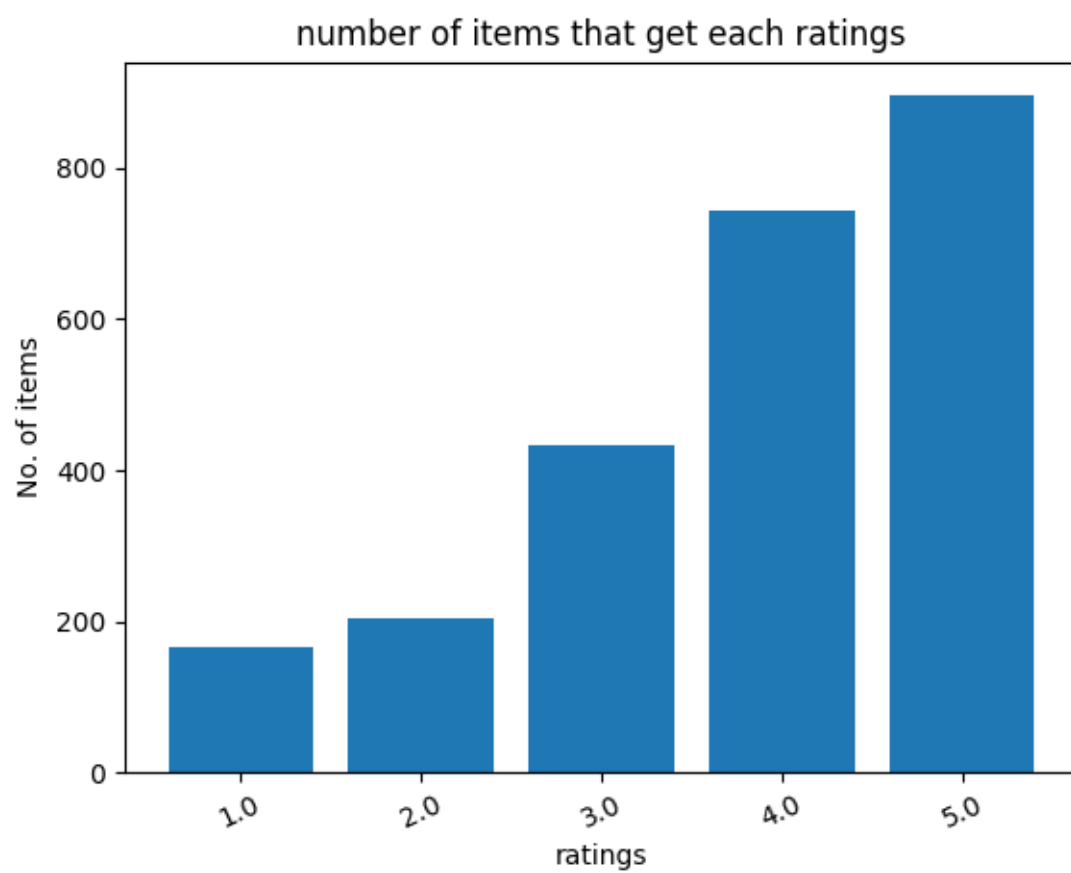


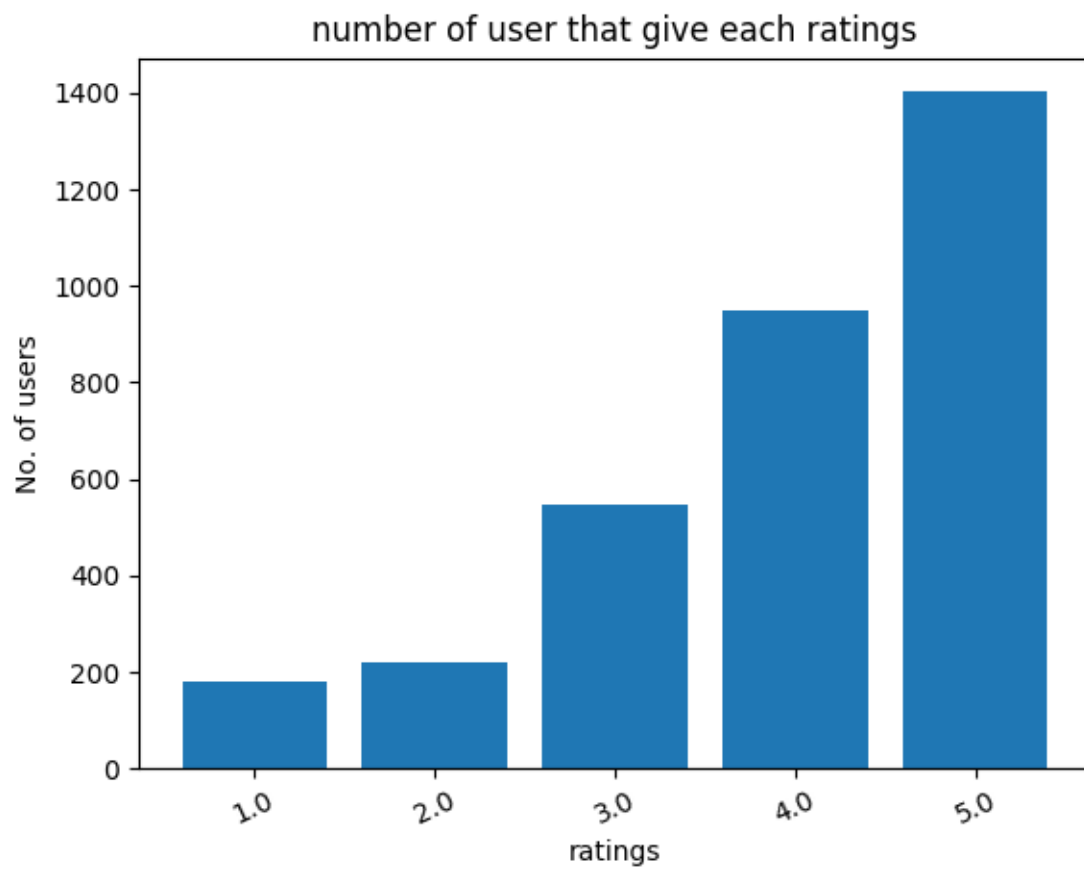


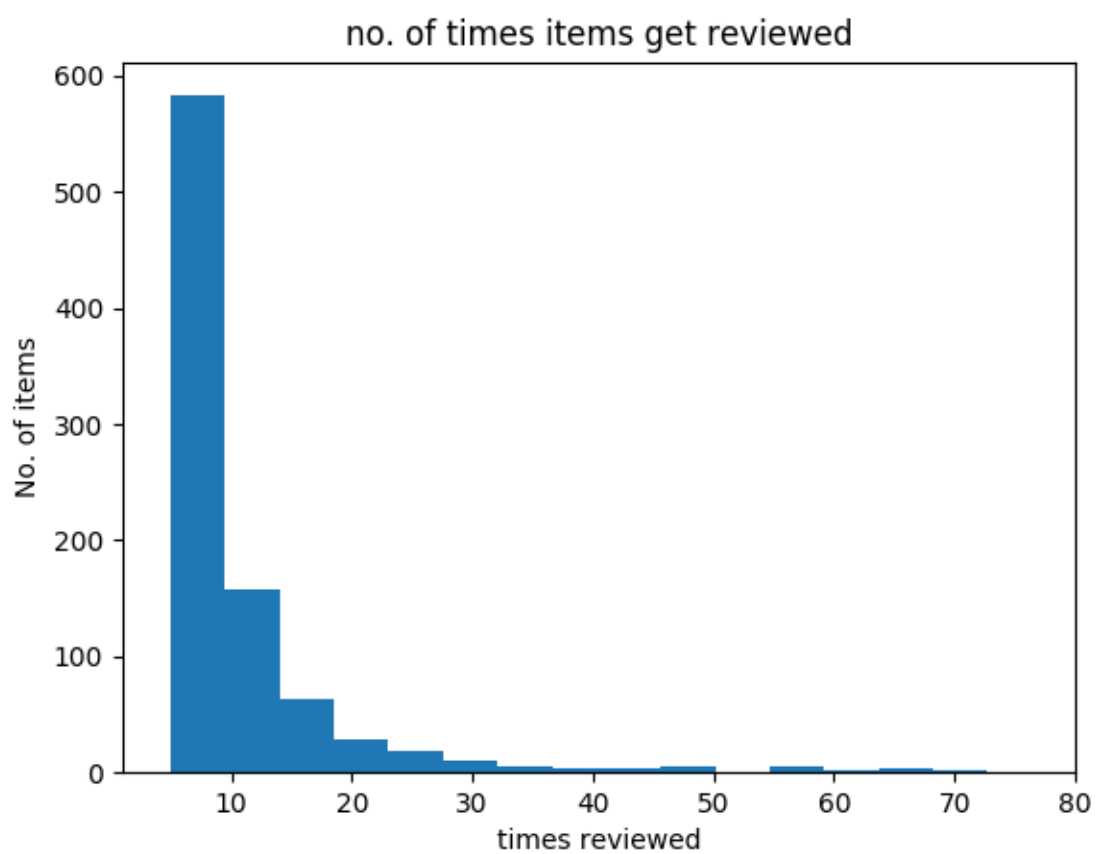


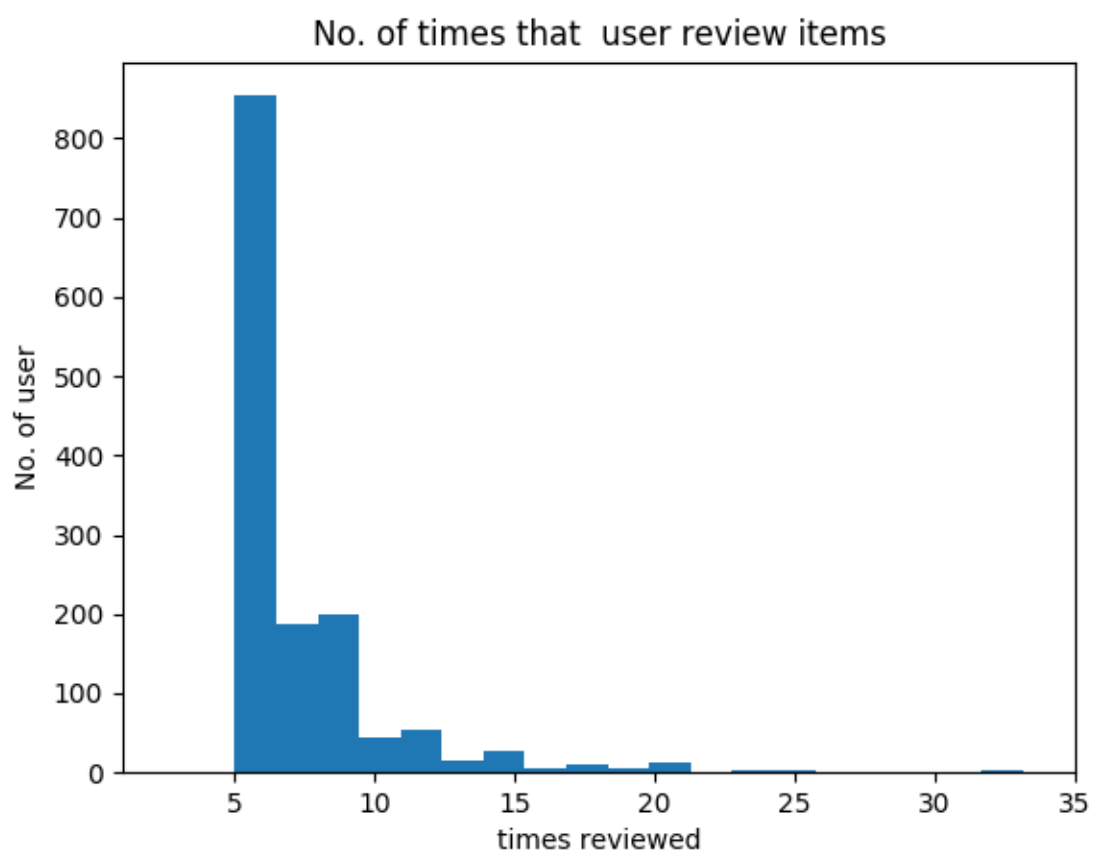


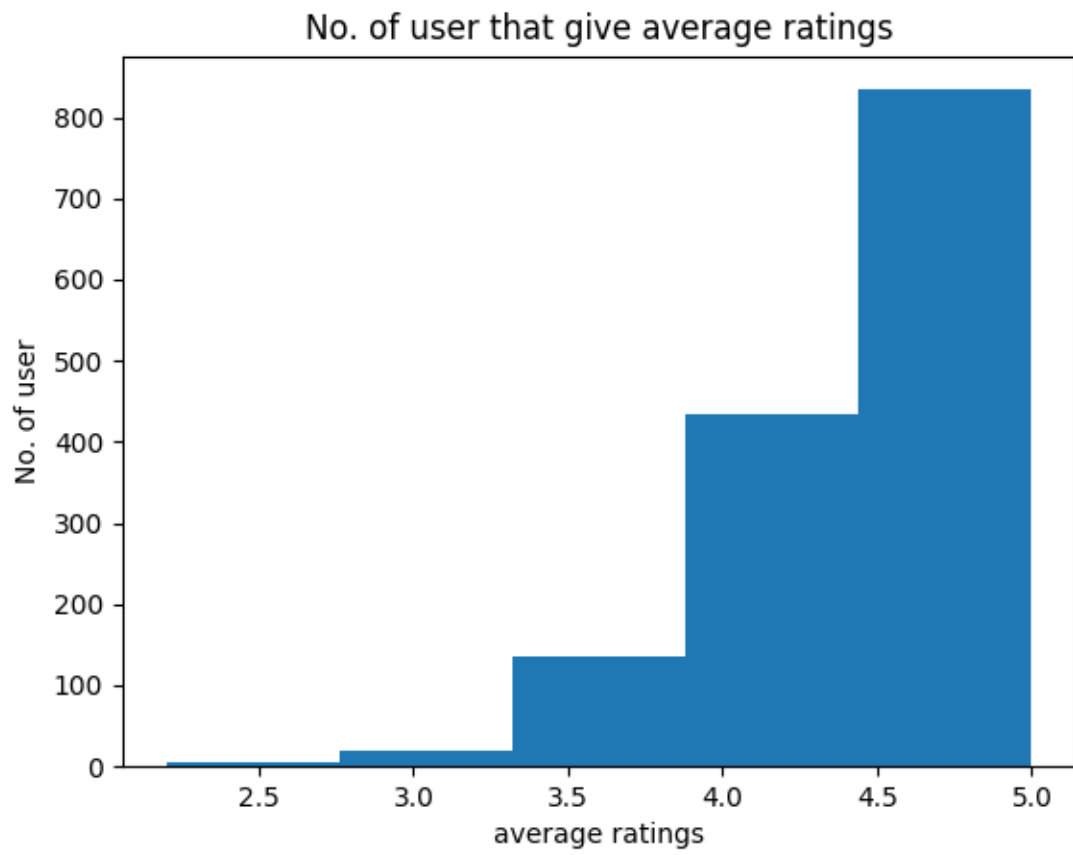
17)Musical Instruments

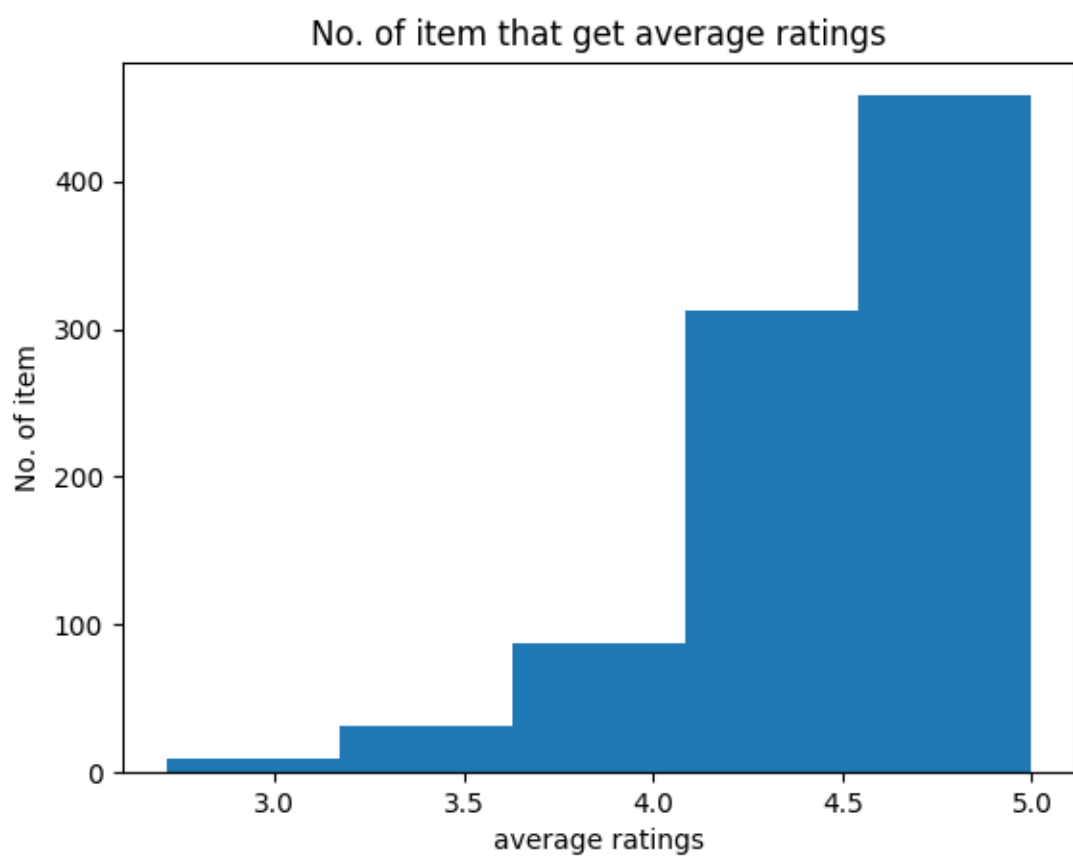


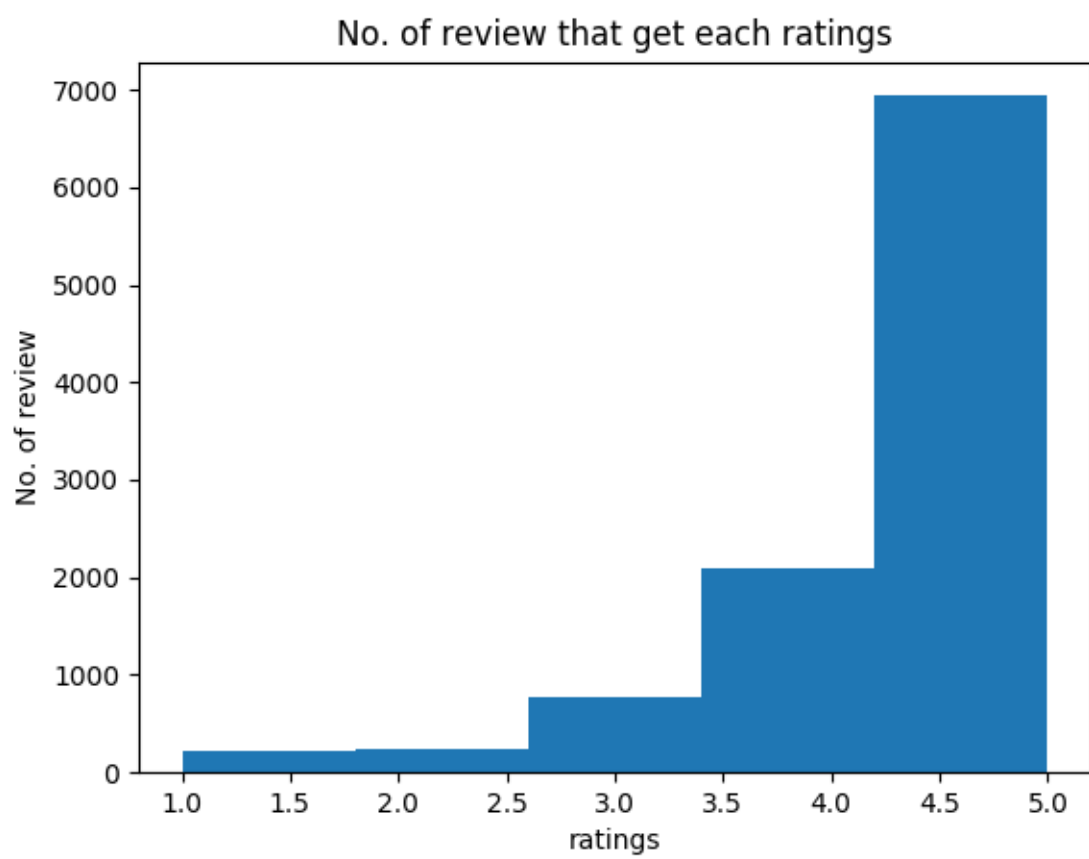


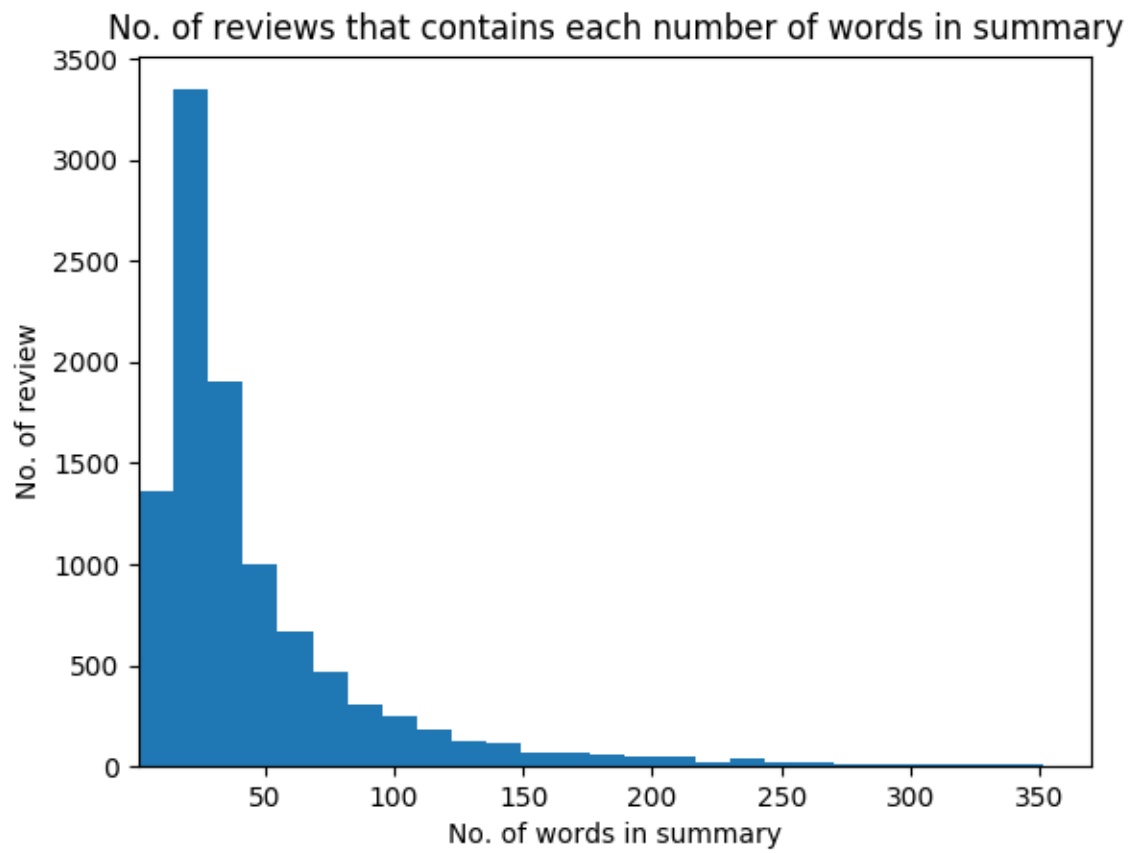




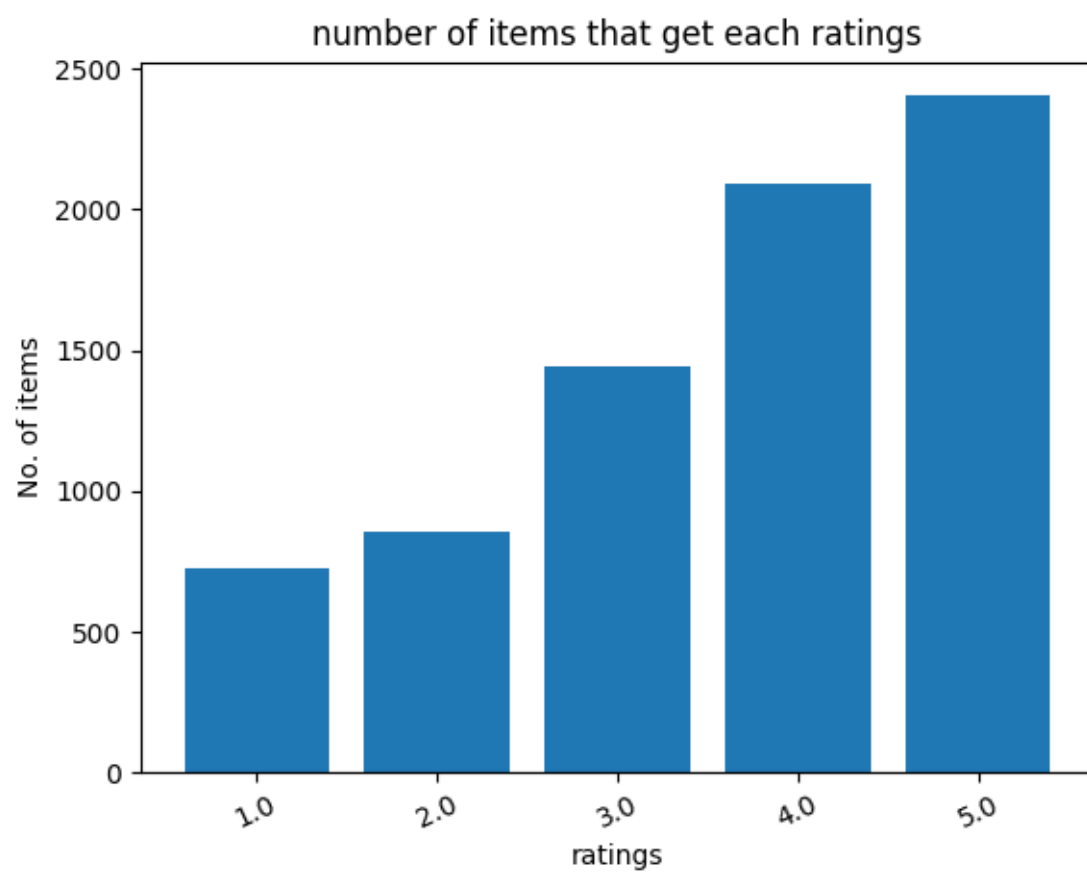


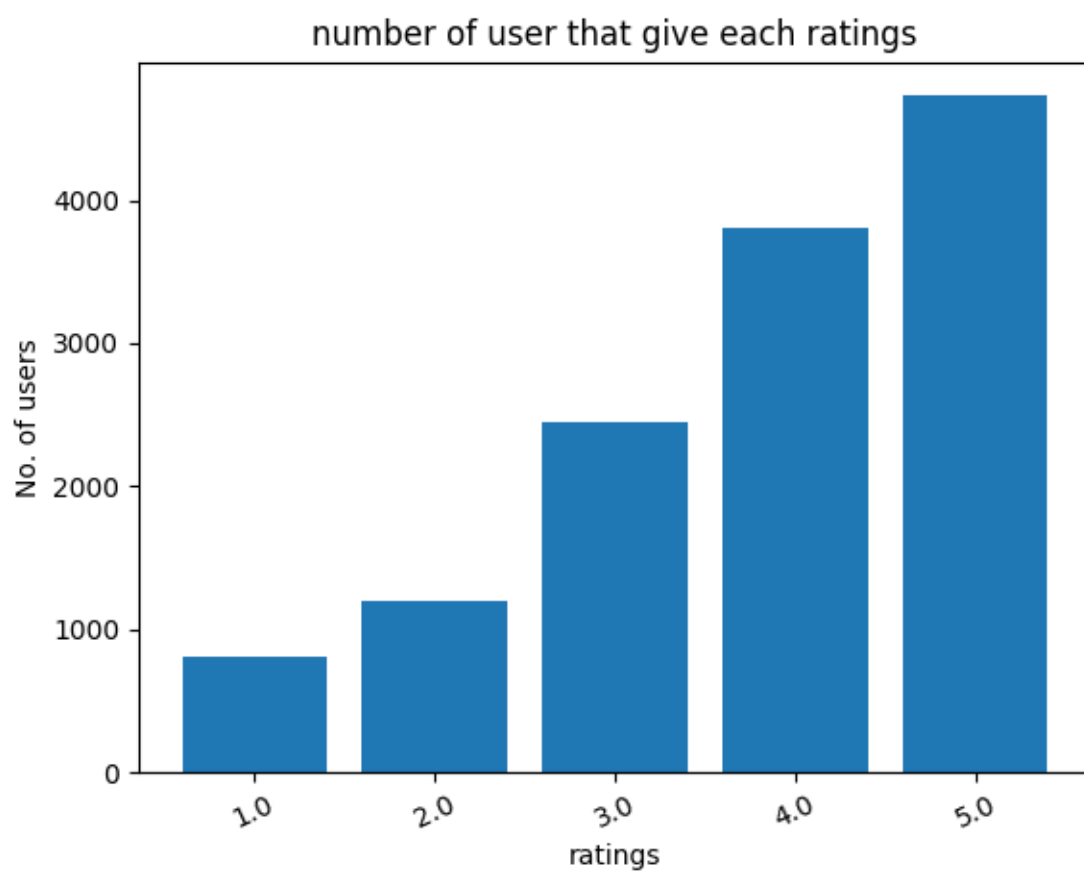


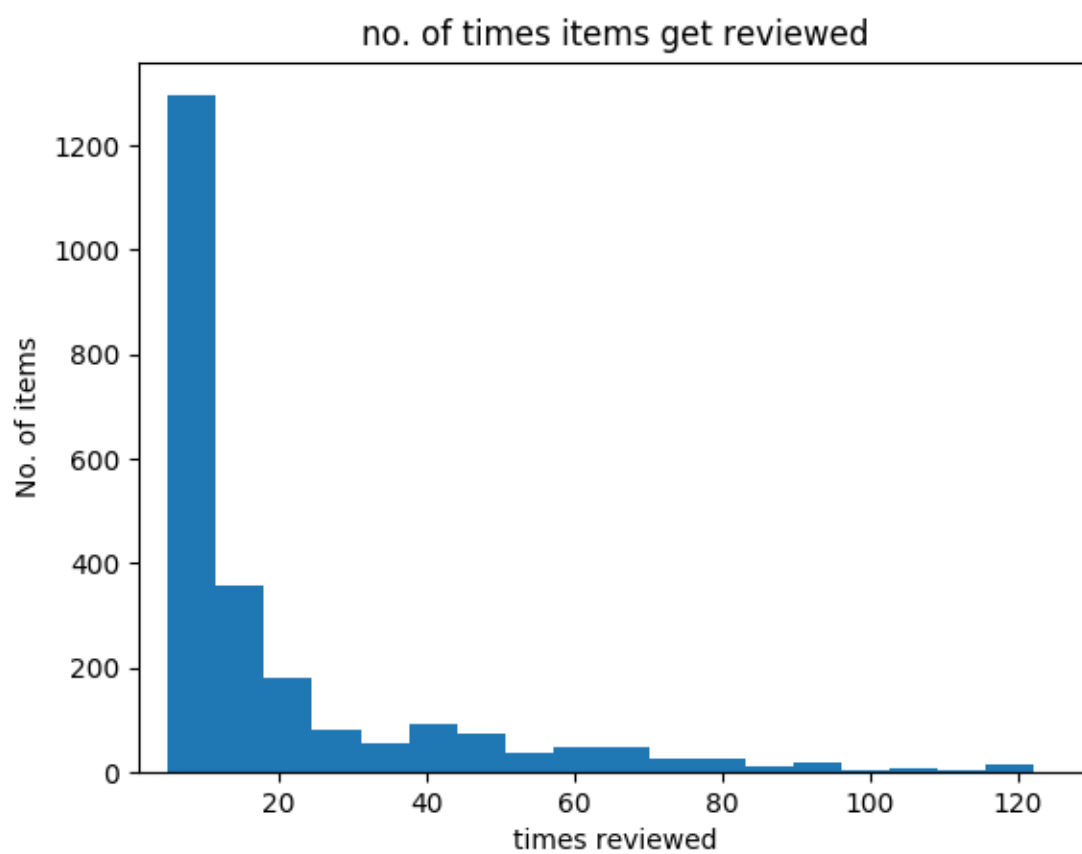


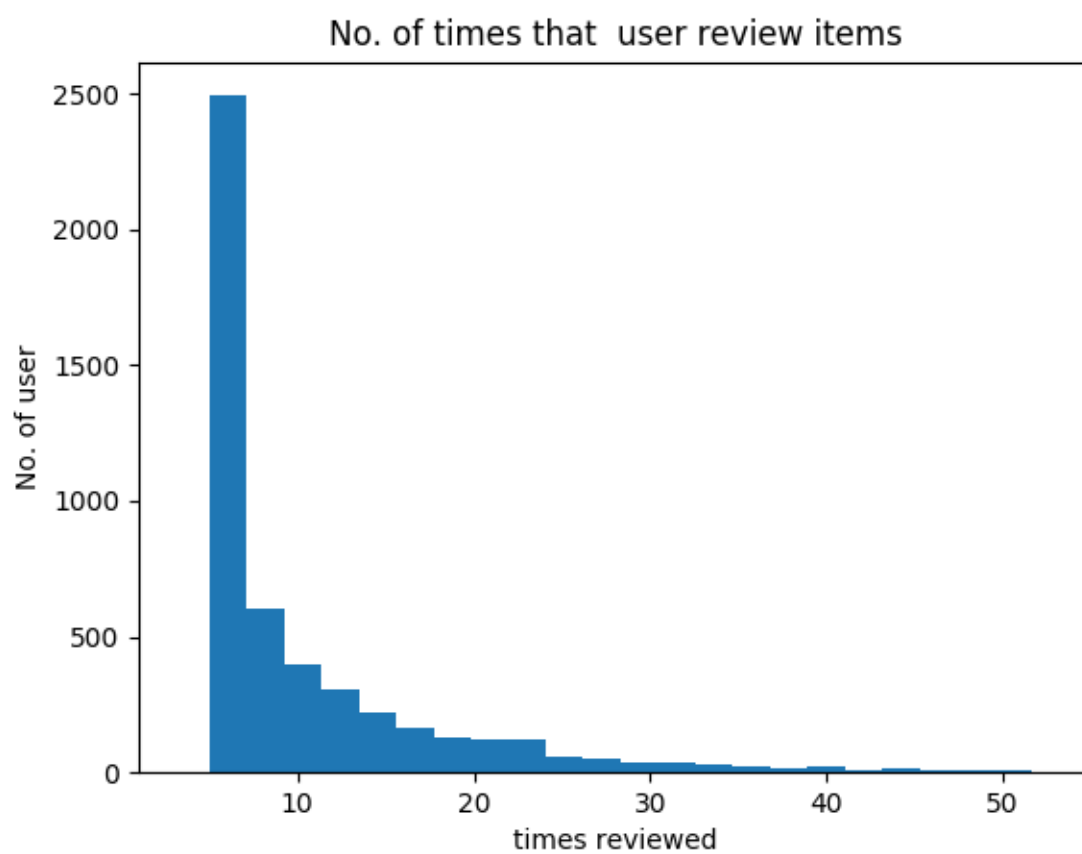


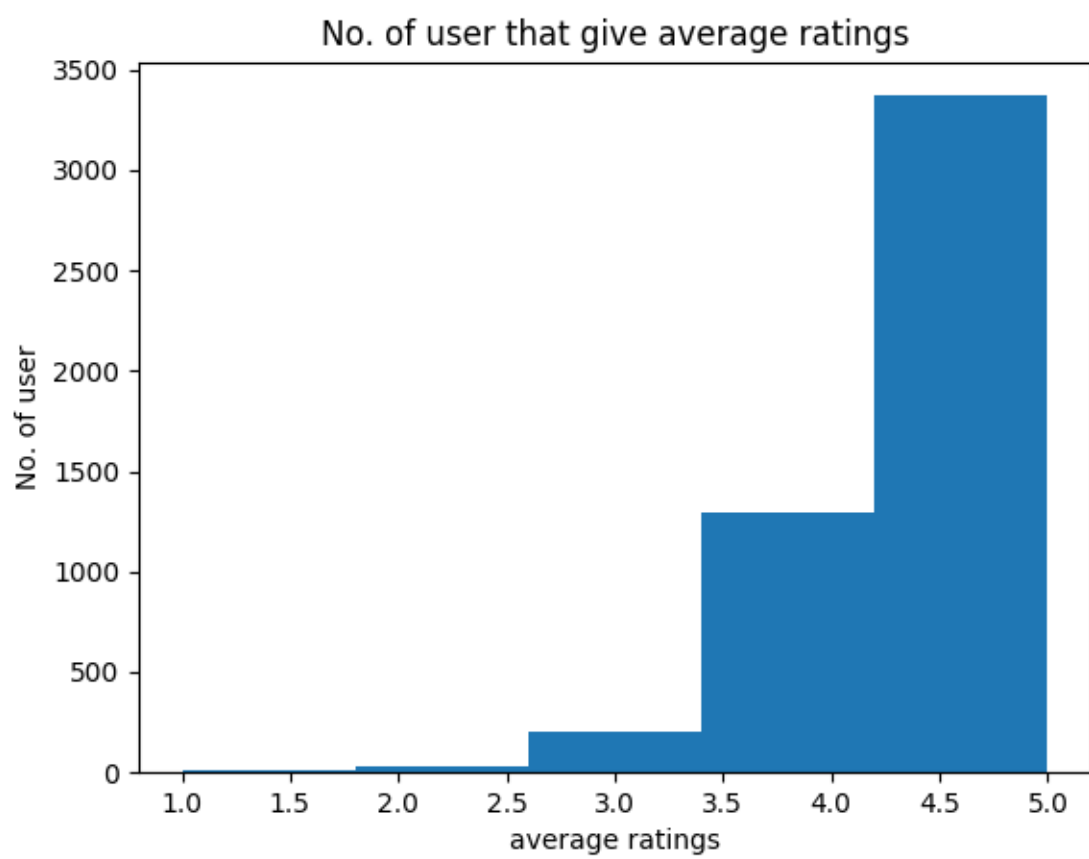
18)Office Products

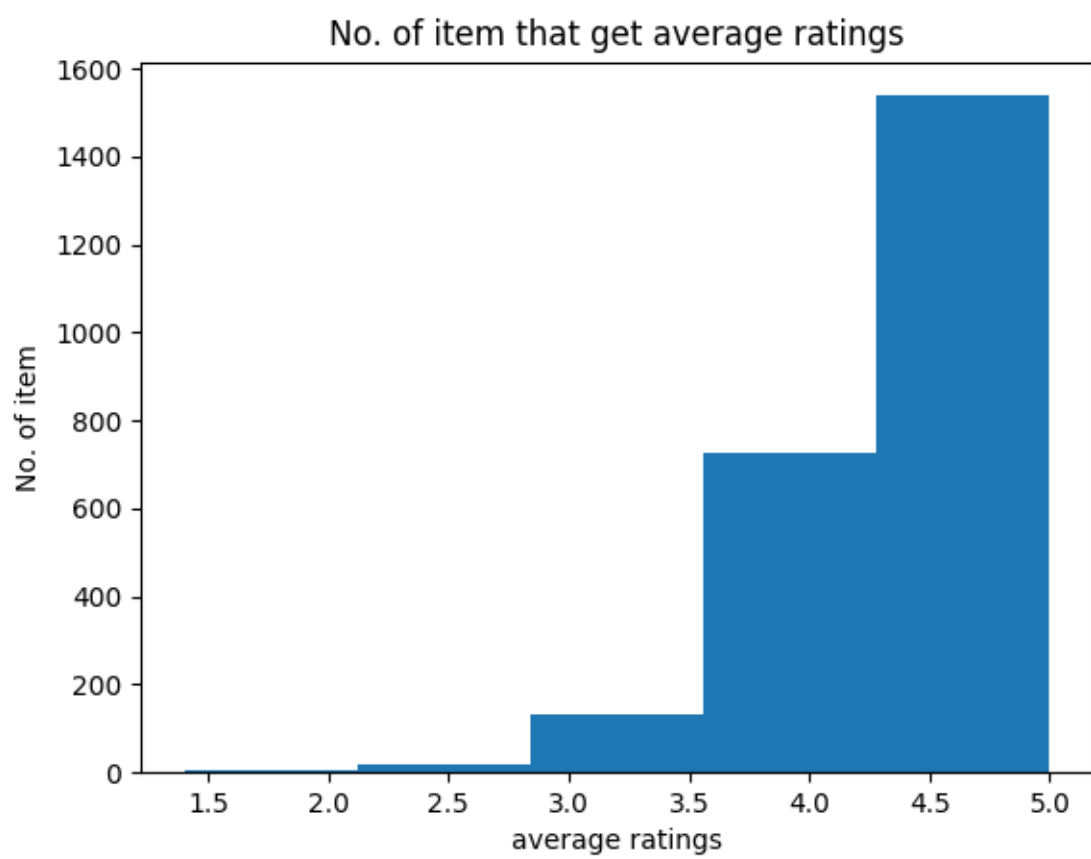


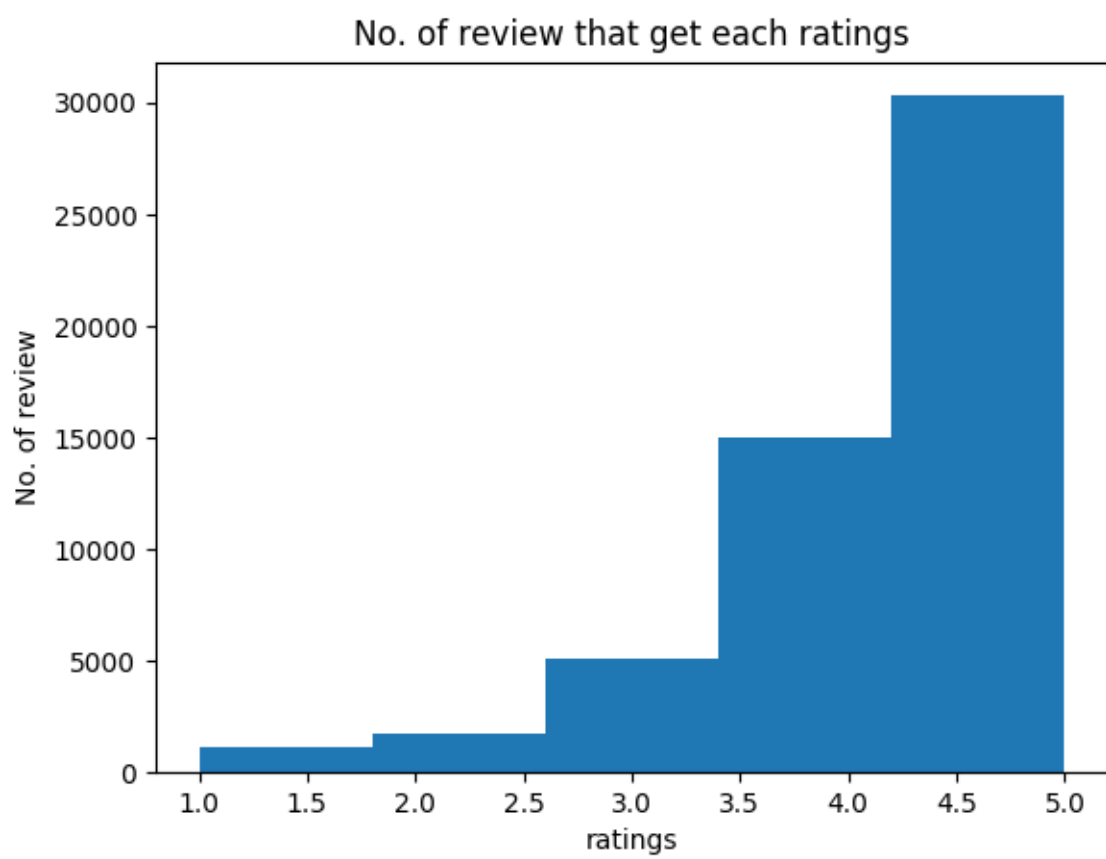


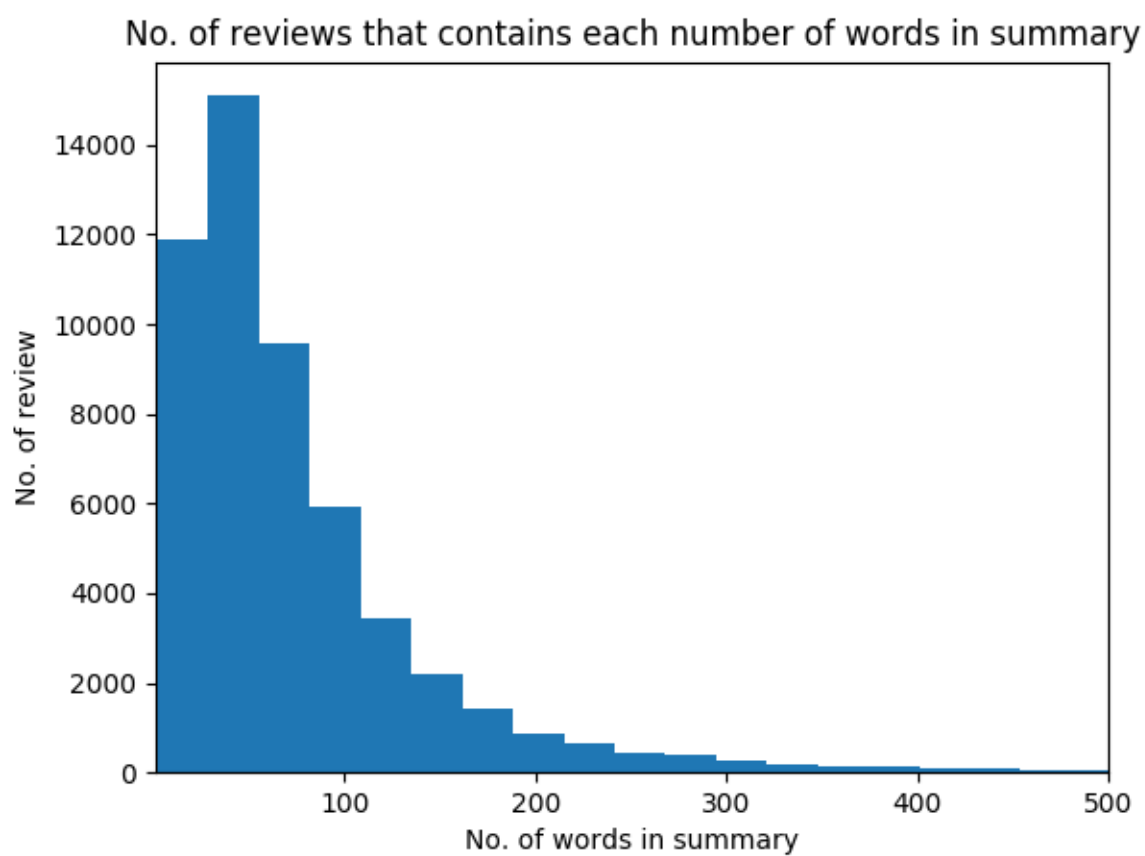




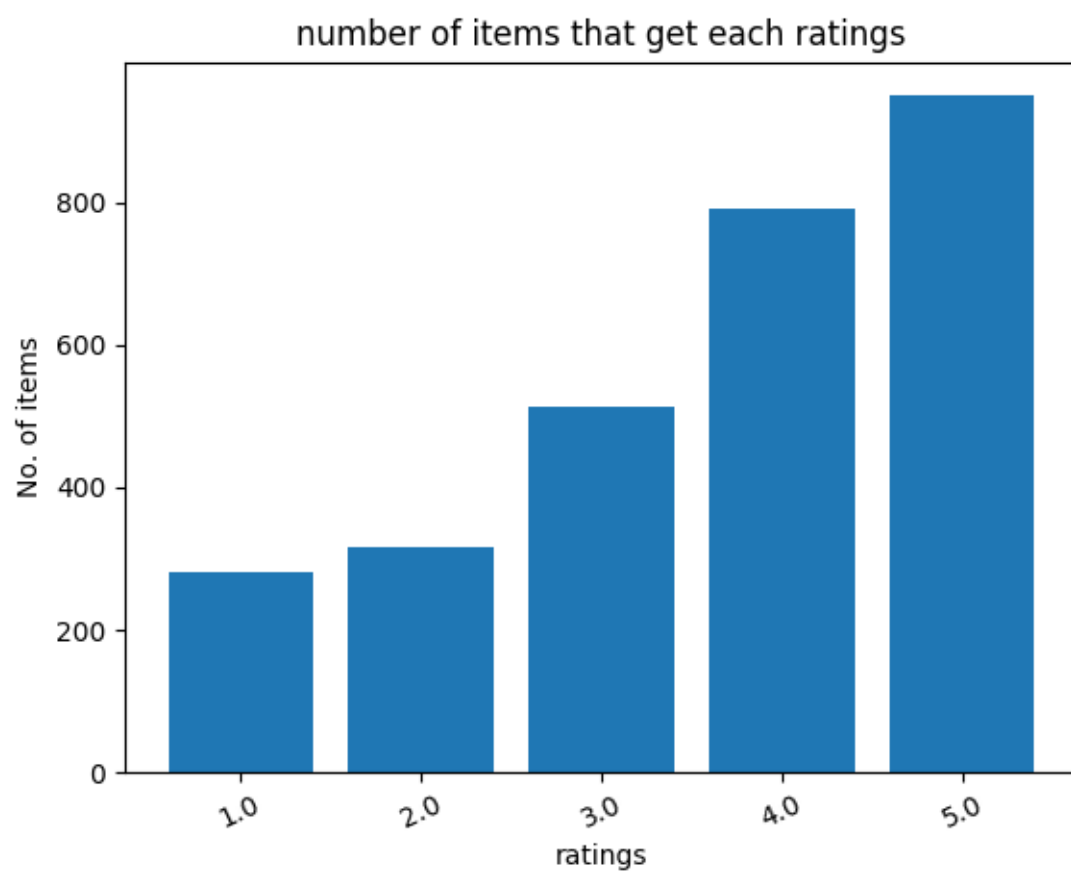


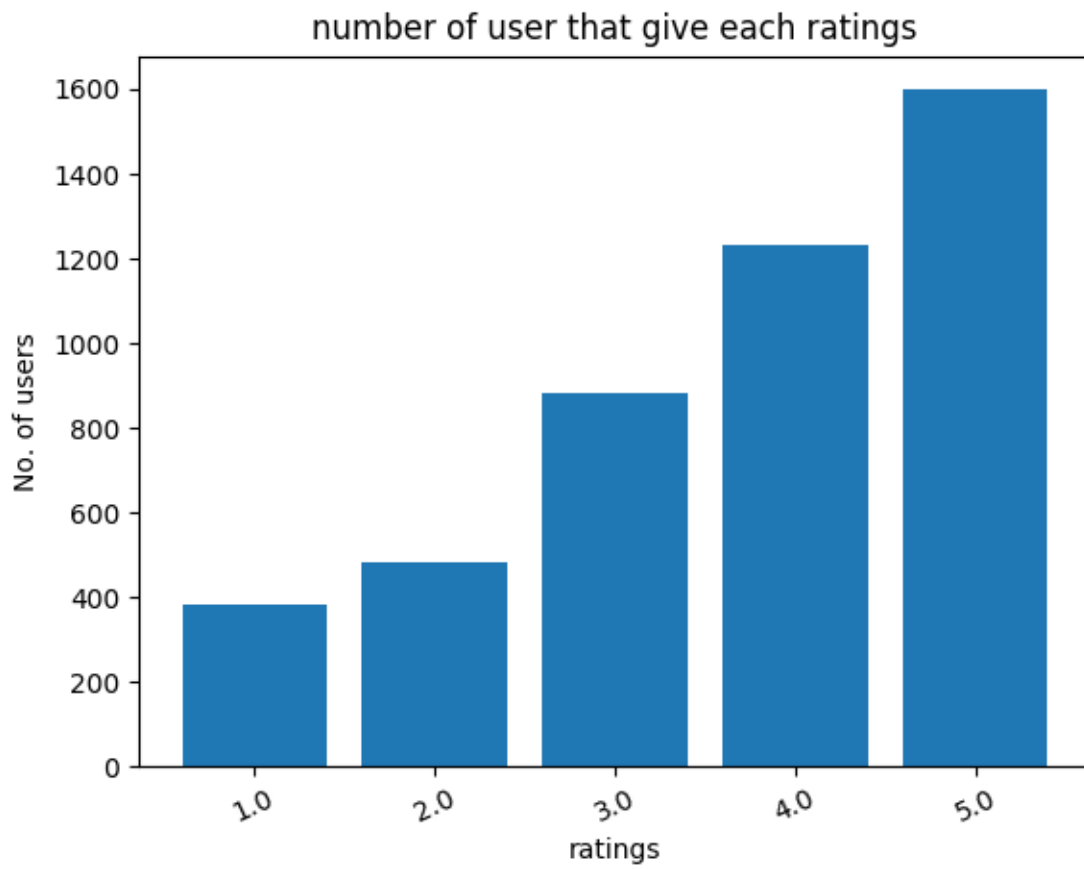


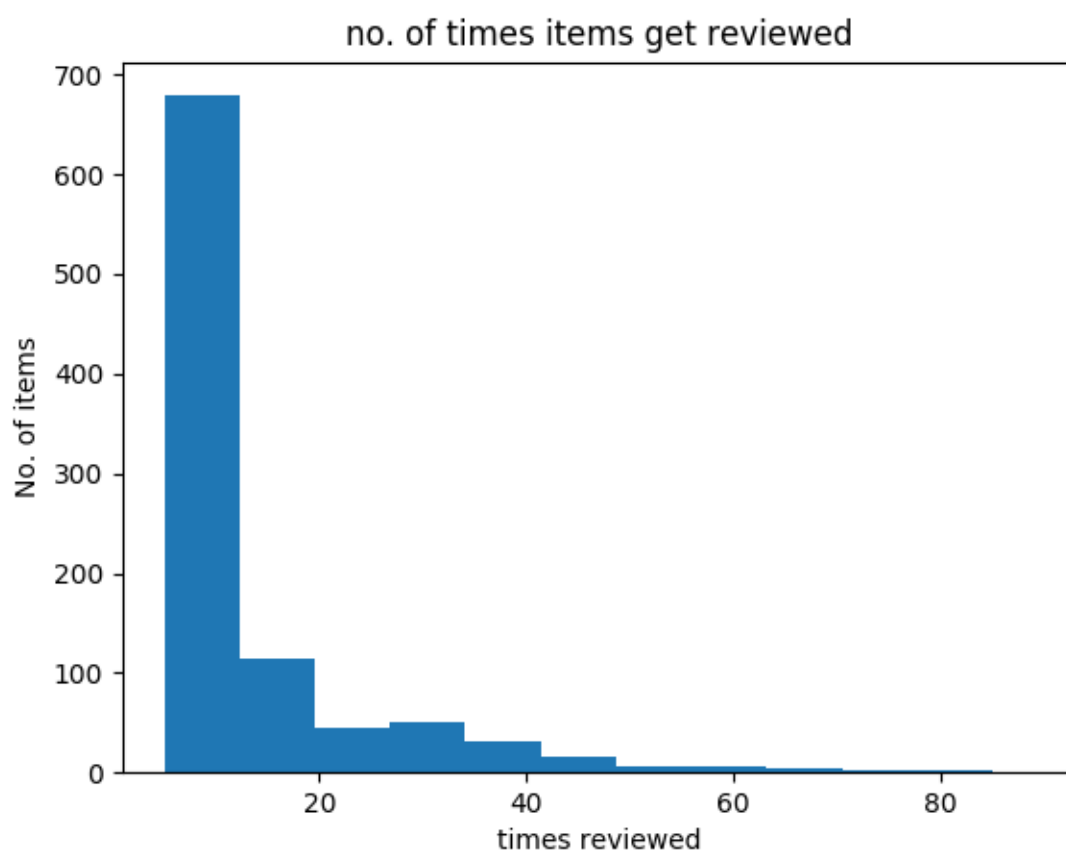


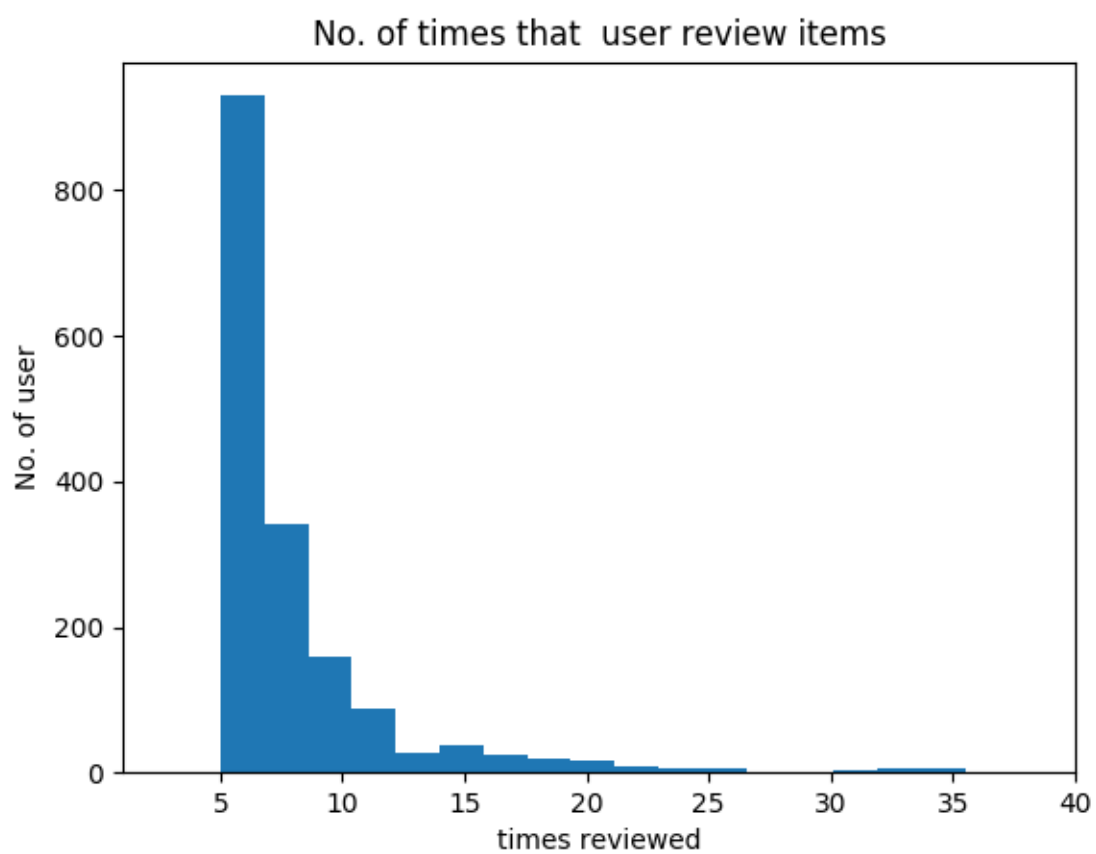


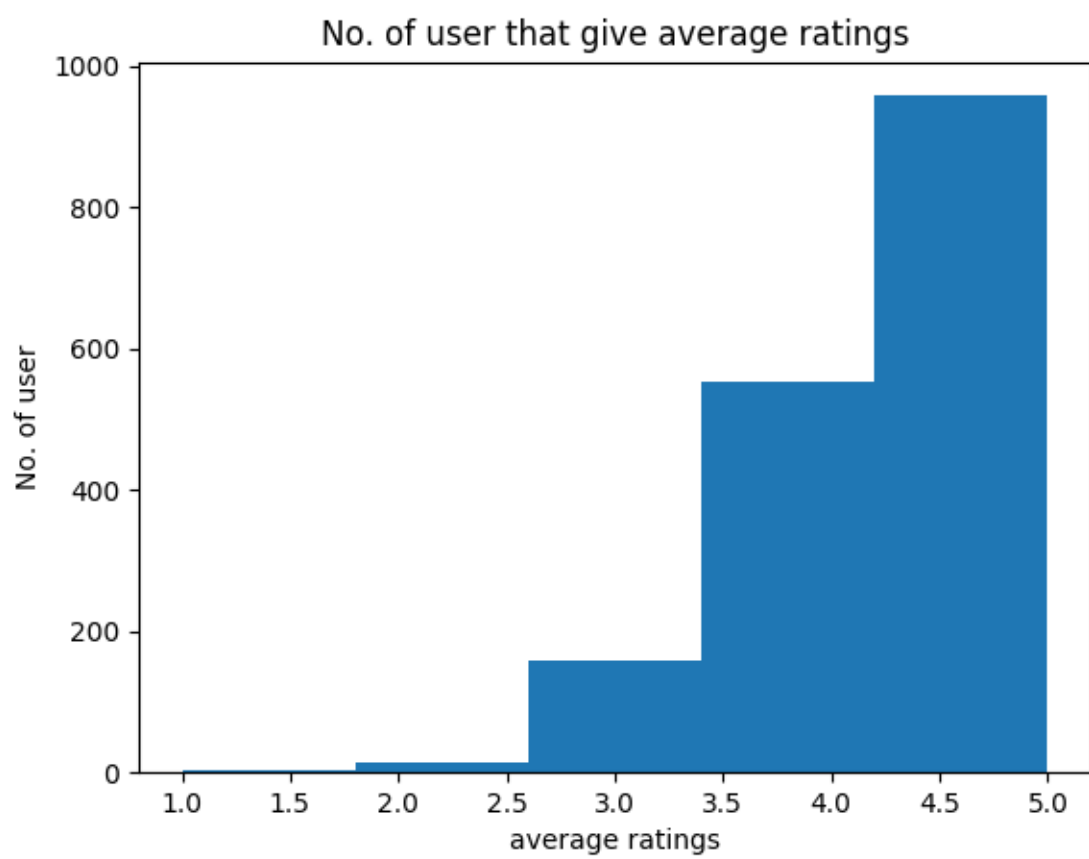
19)Patio Lawn and Garden

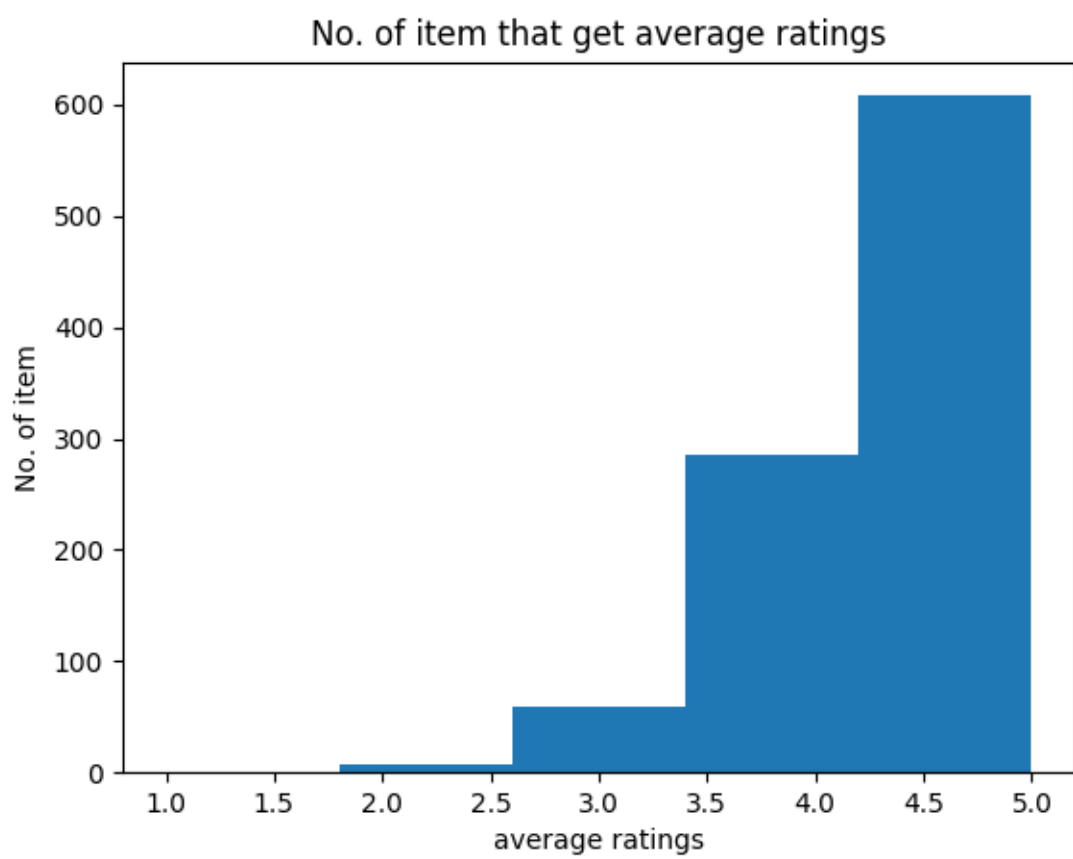


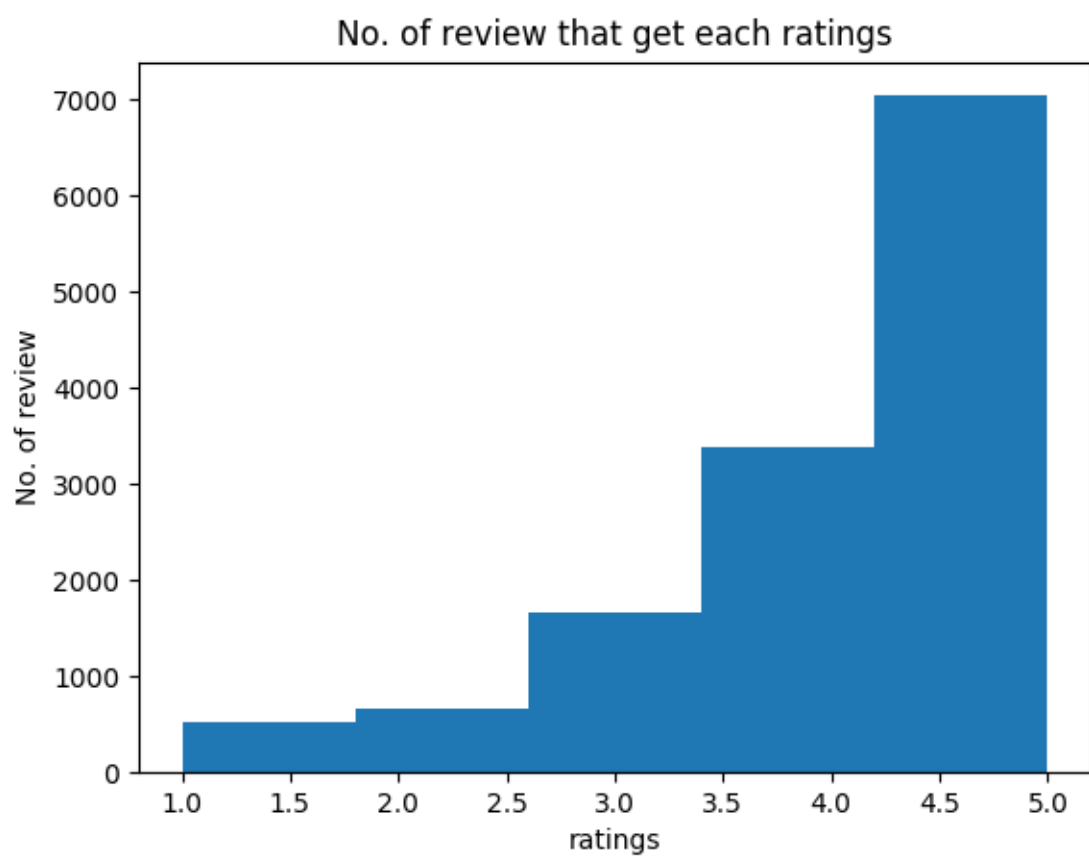


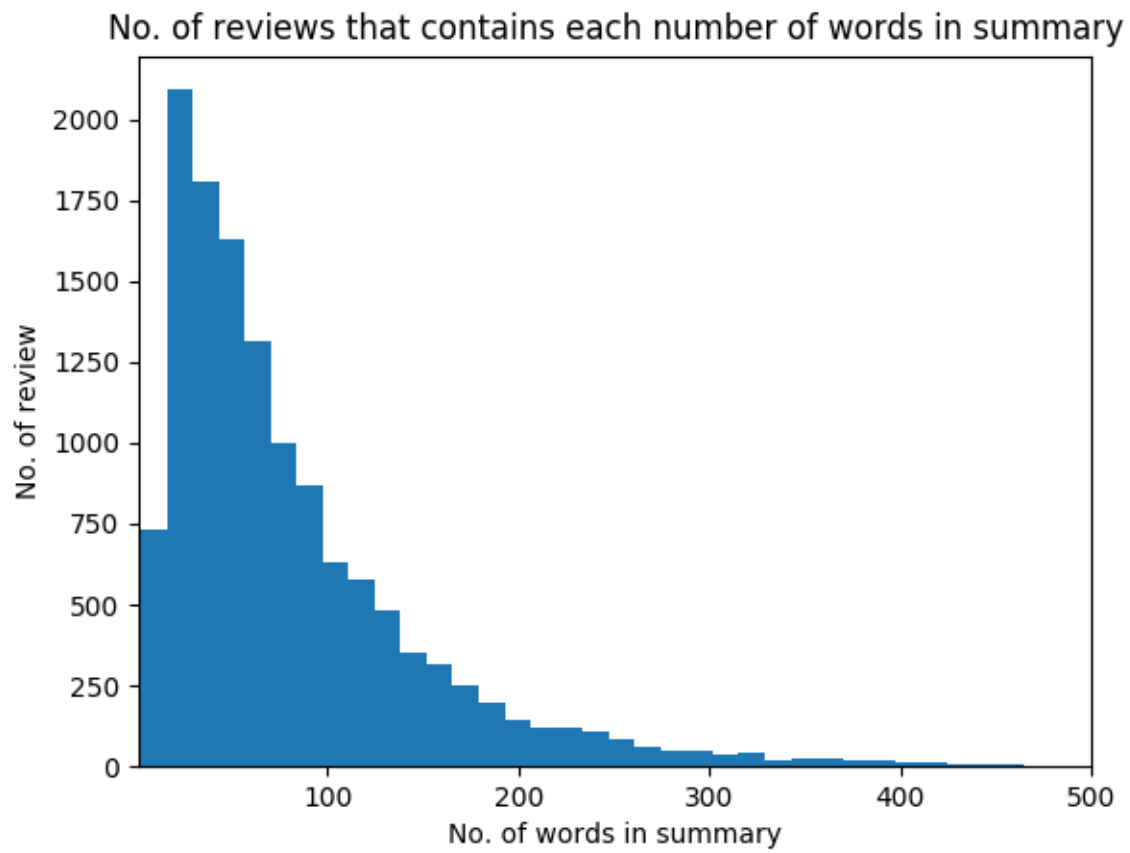




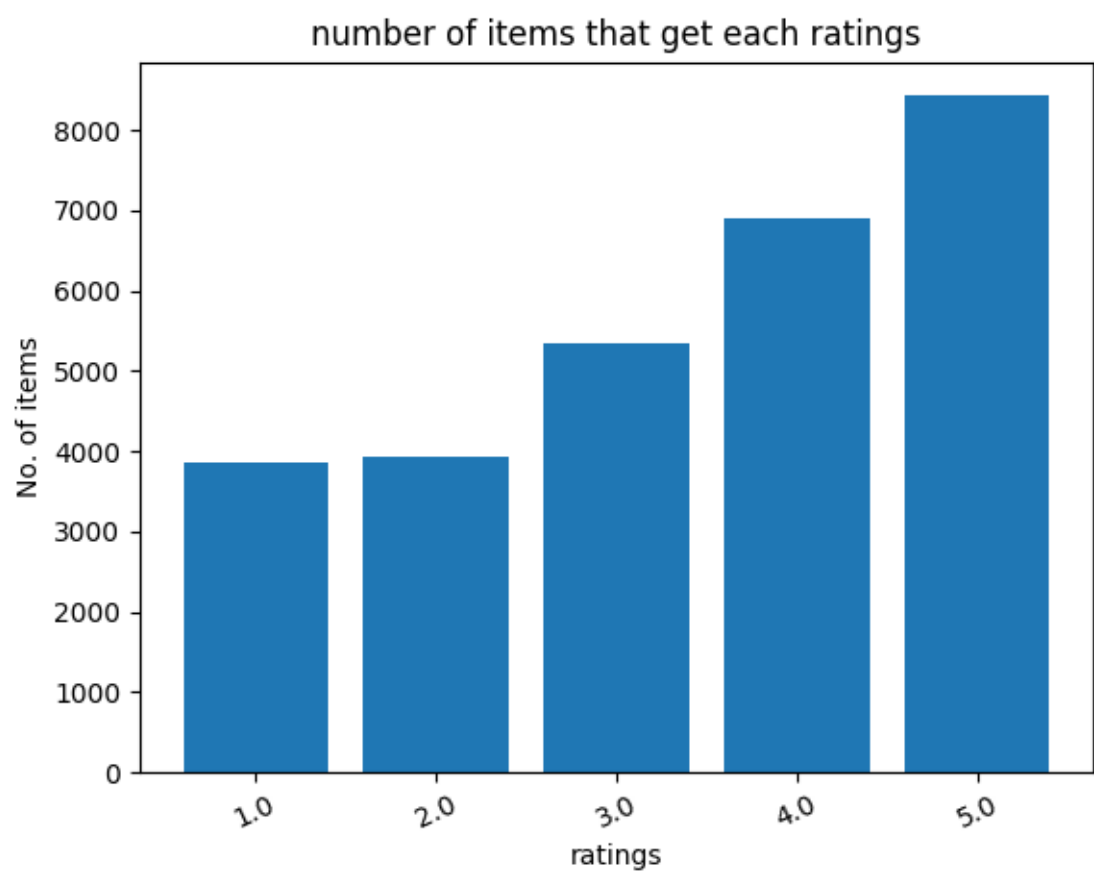


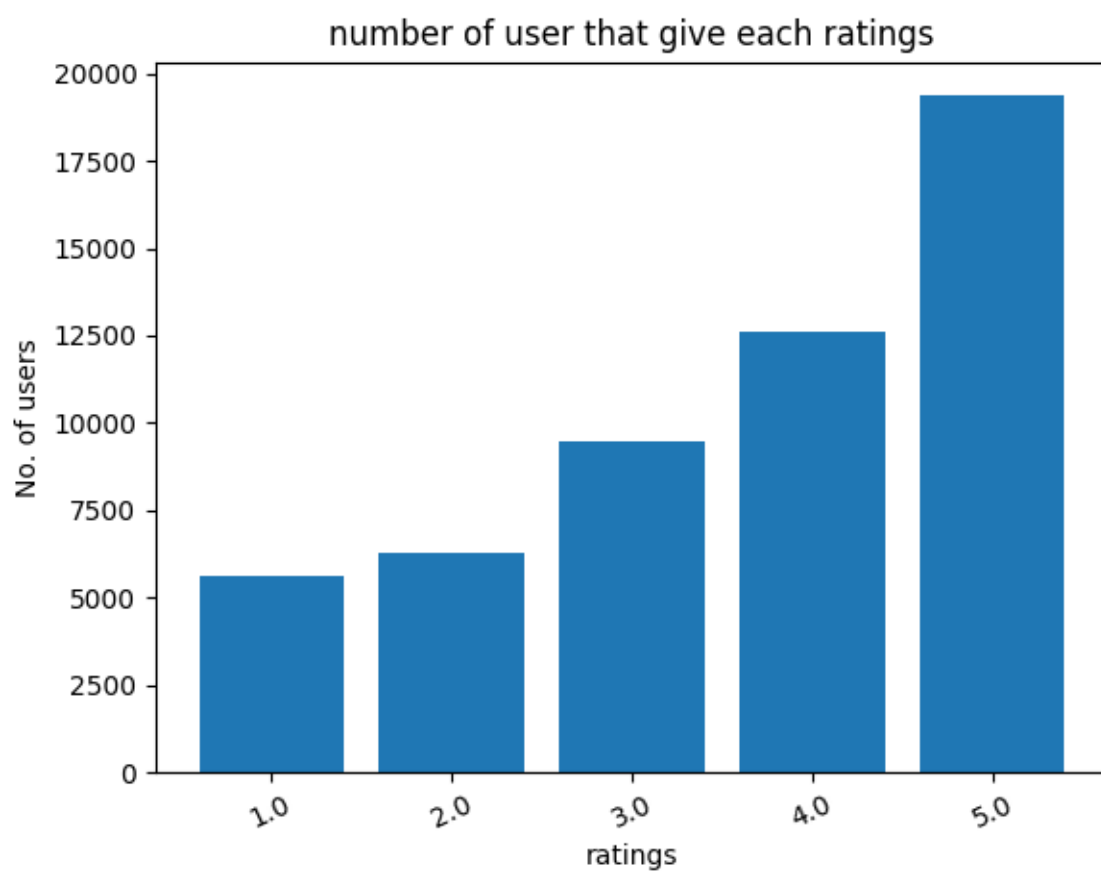


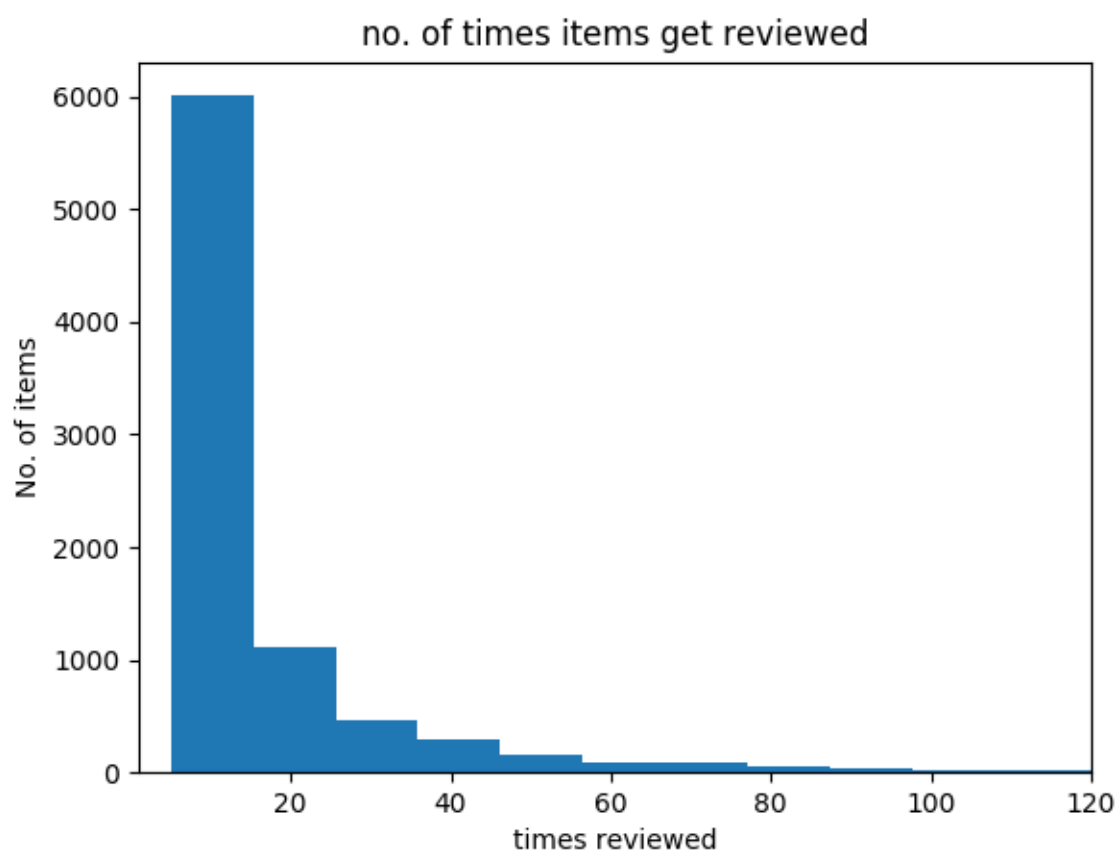


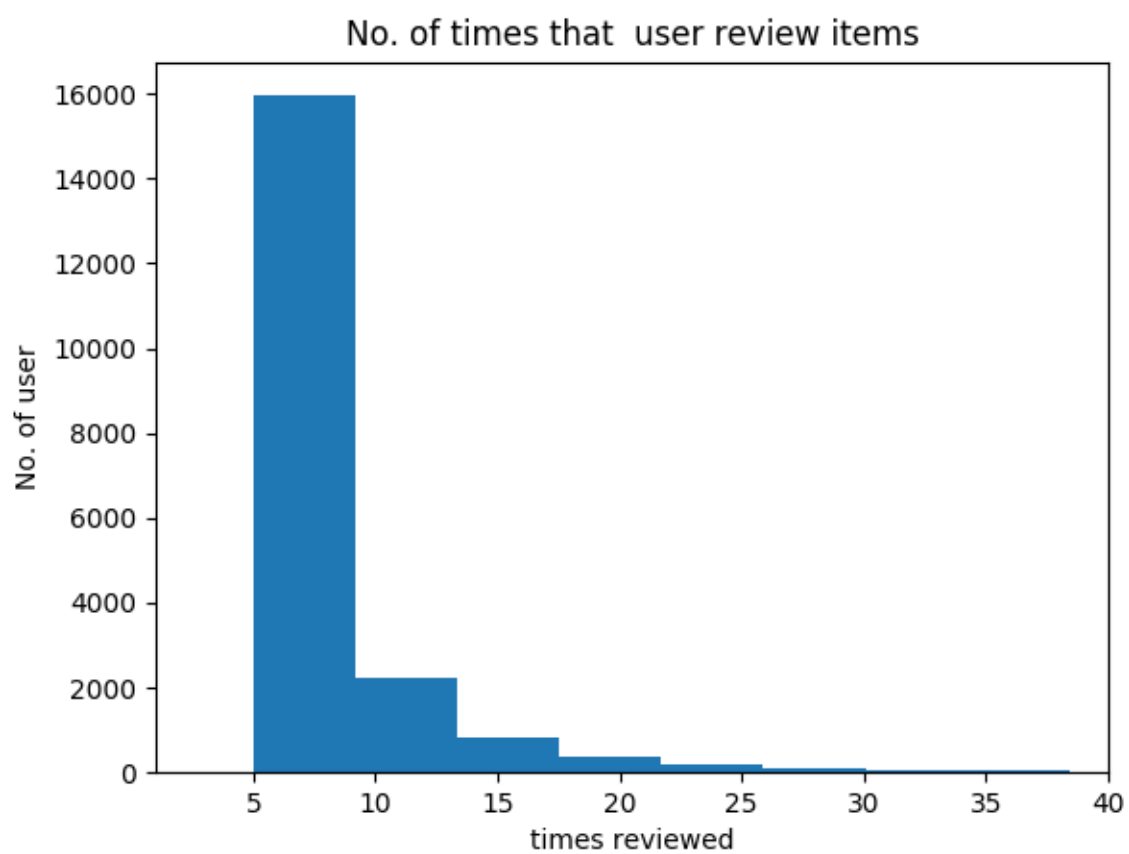


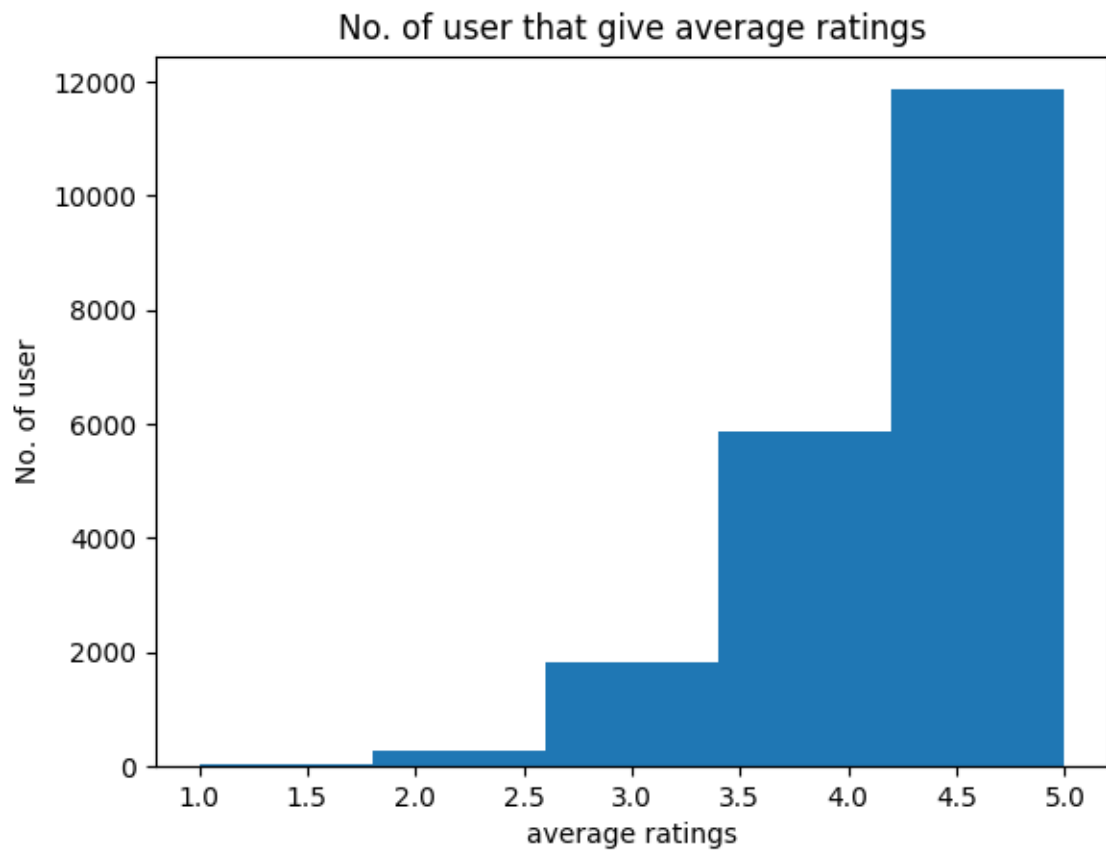
20)Pet Supplies

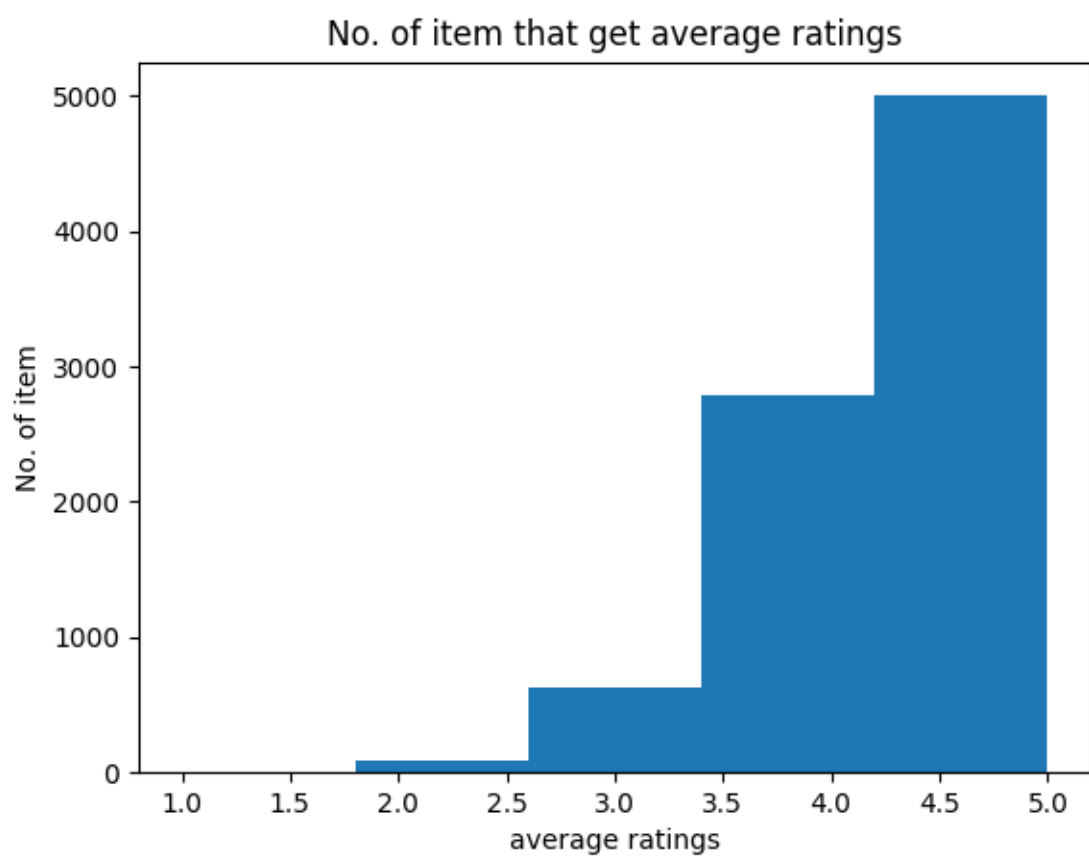


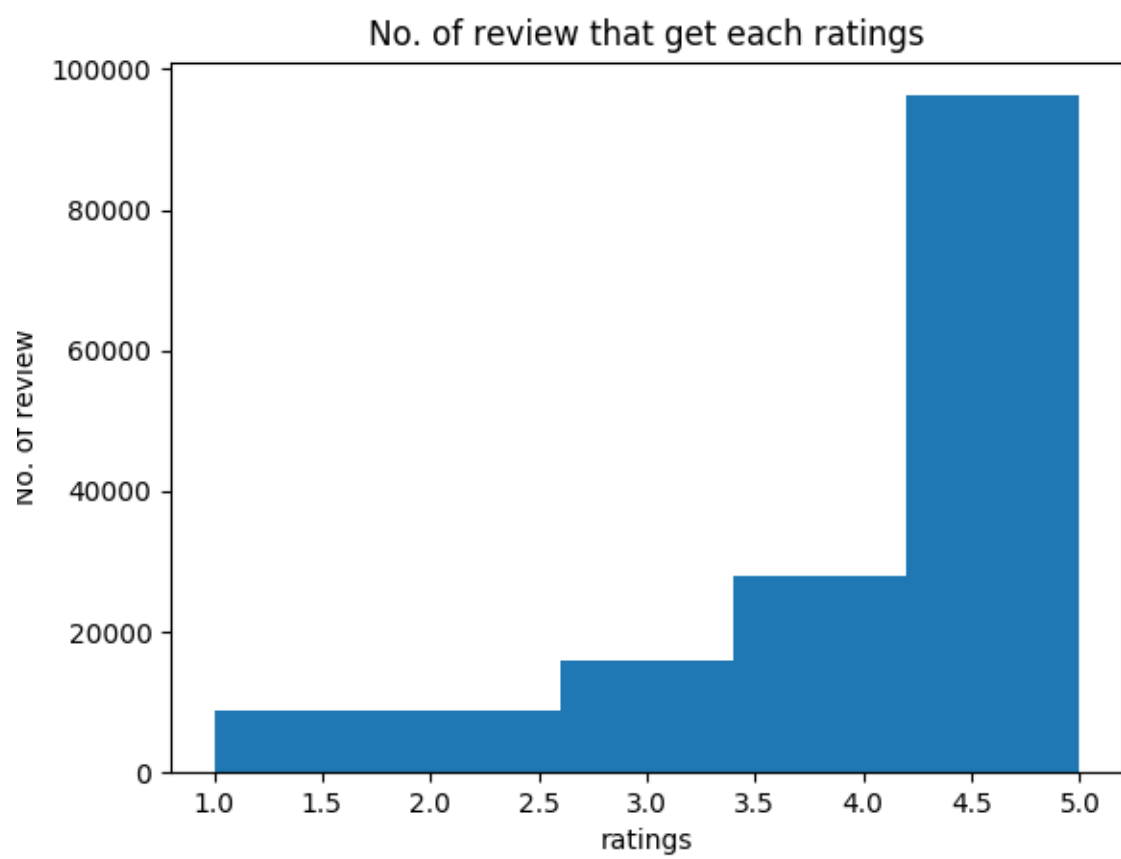


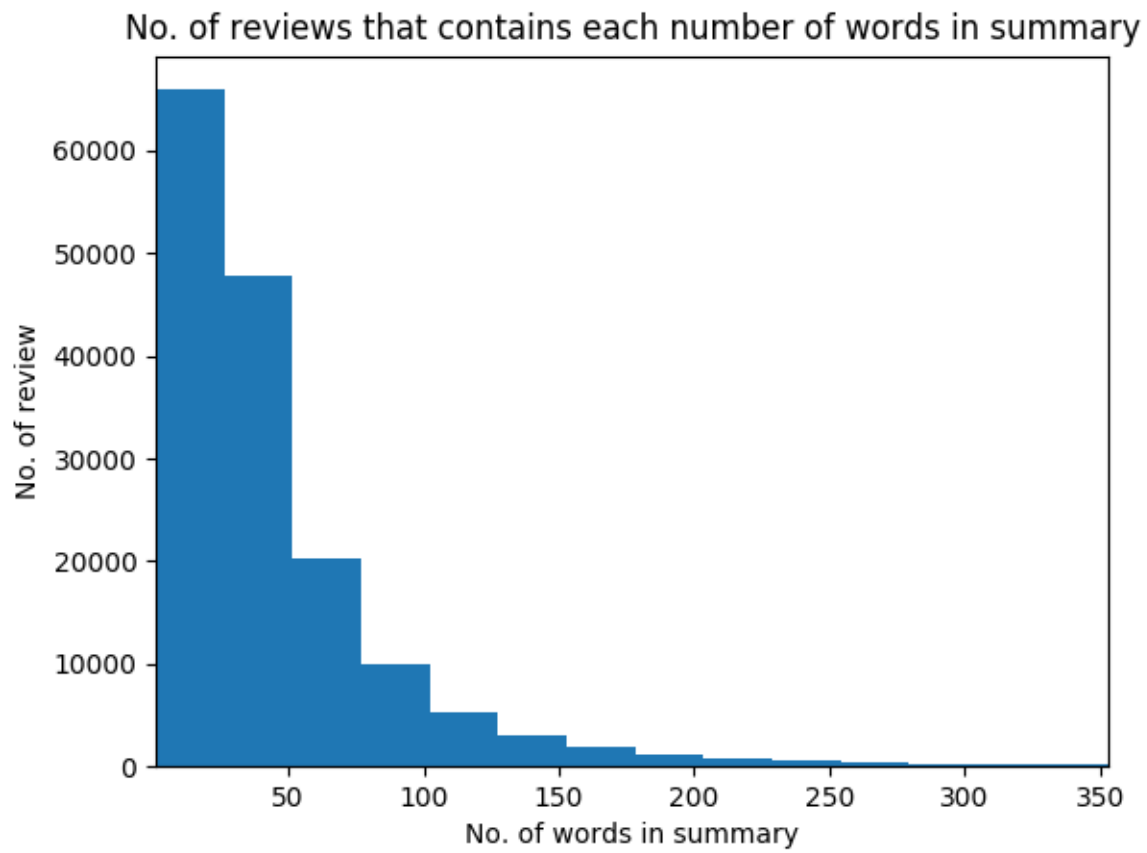




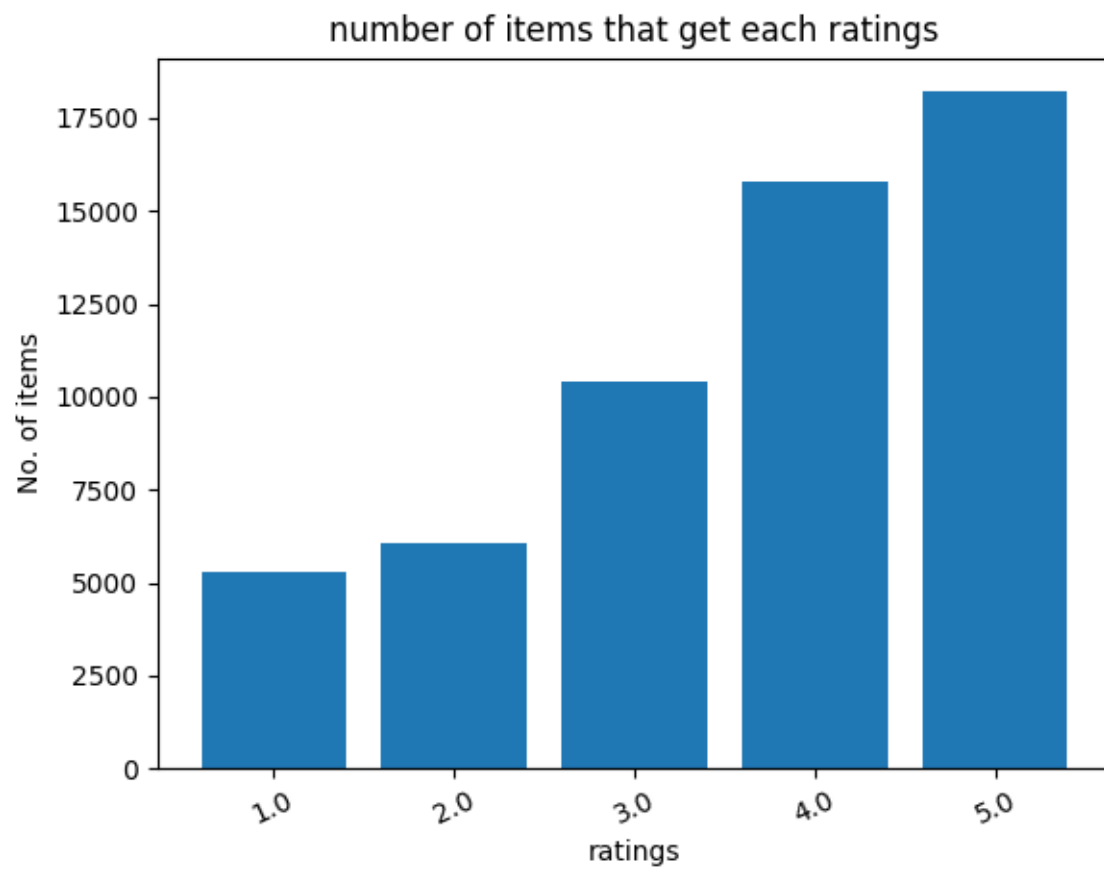


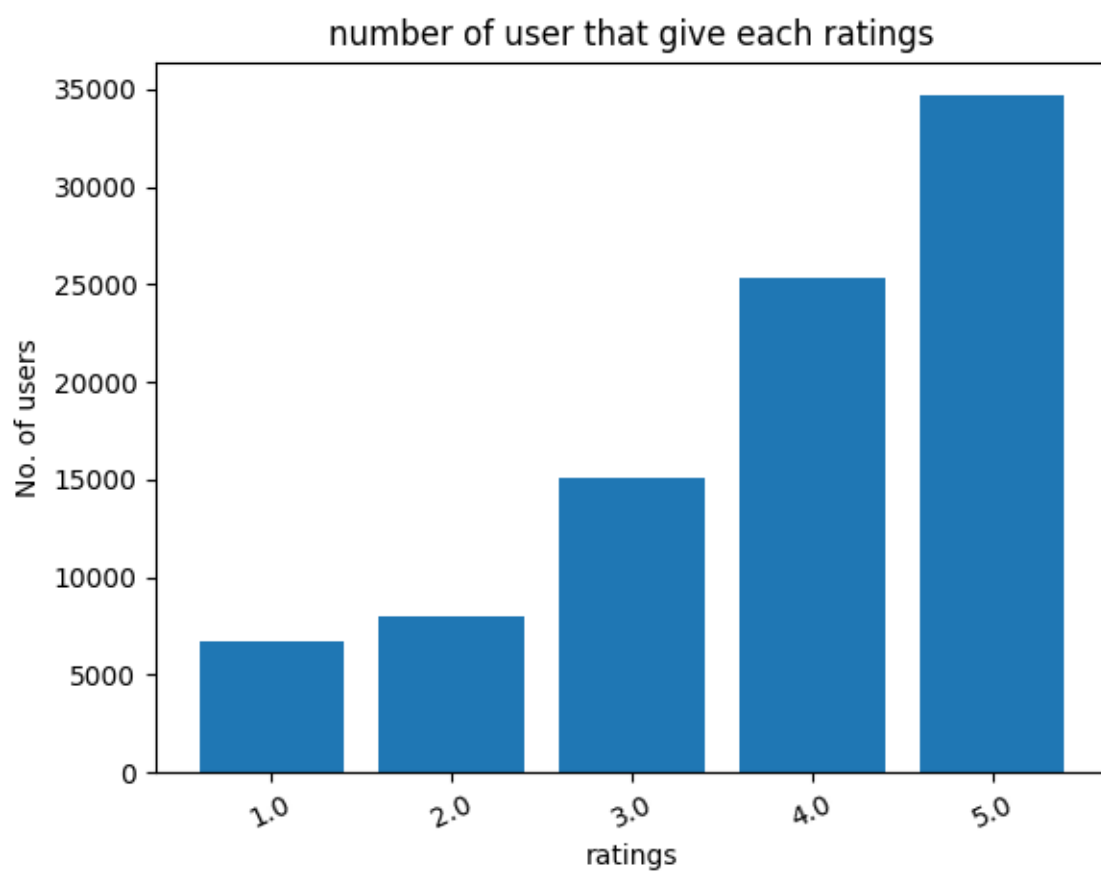


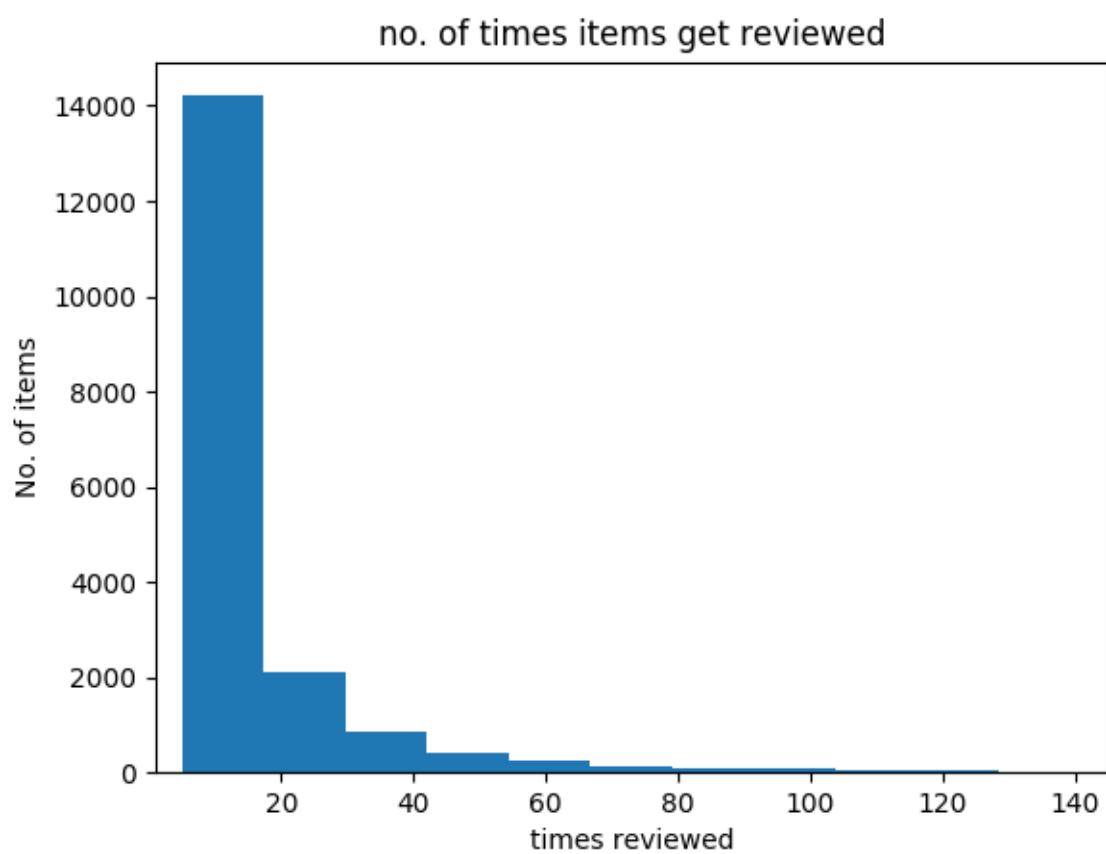


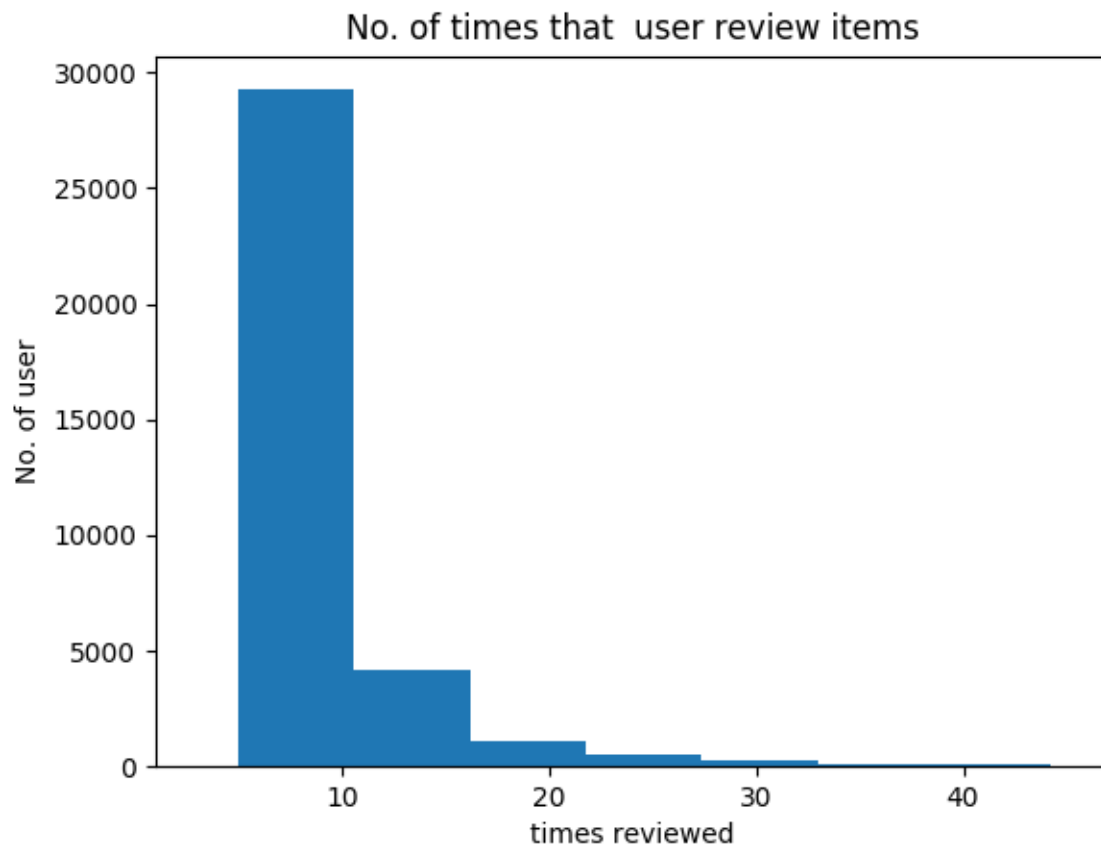


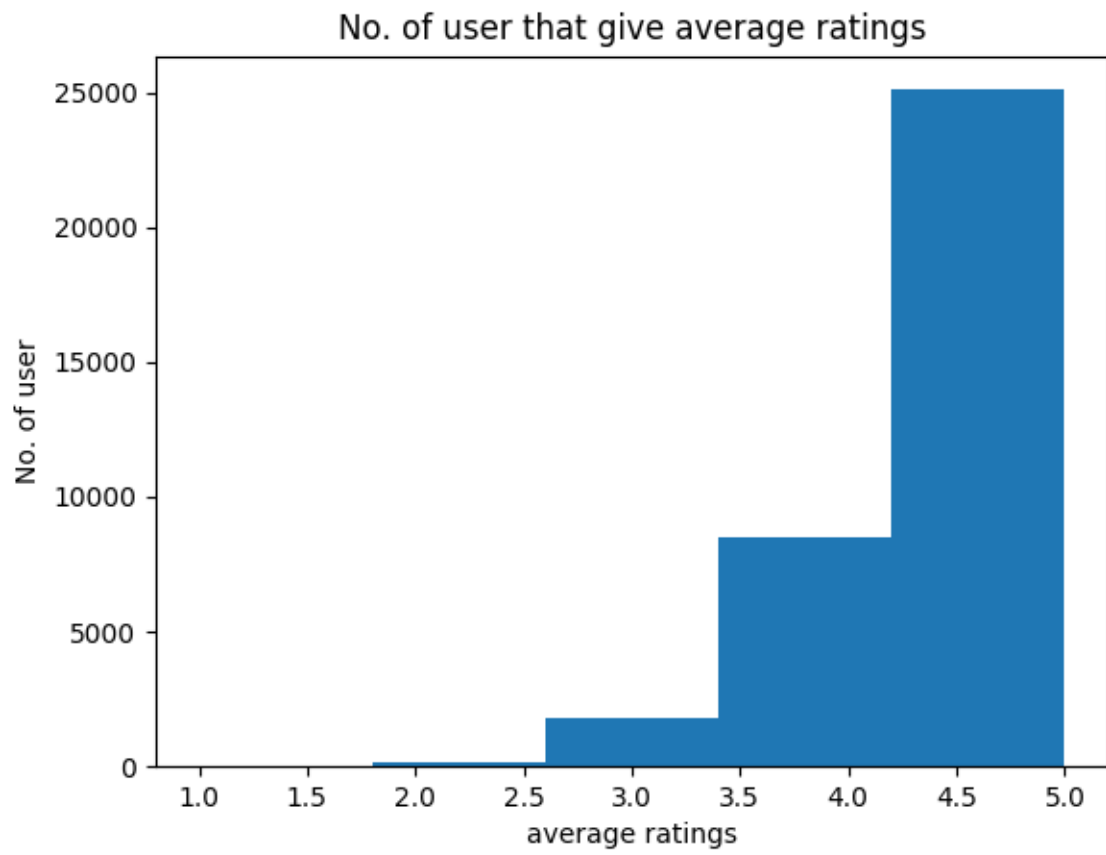
21)Sports and Outdoors

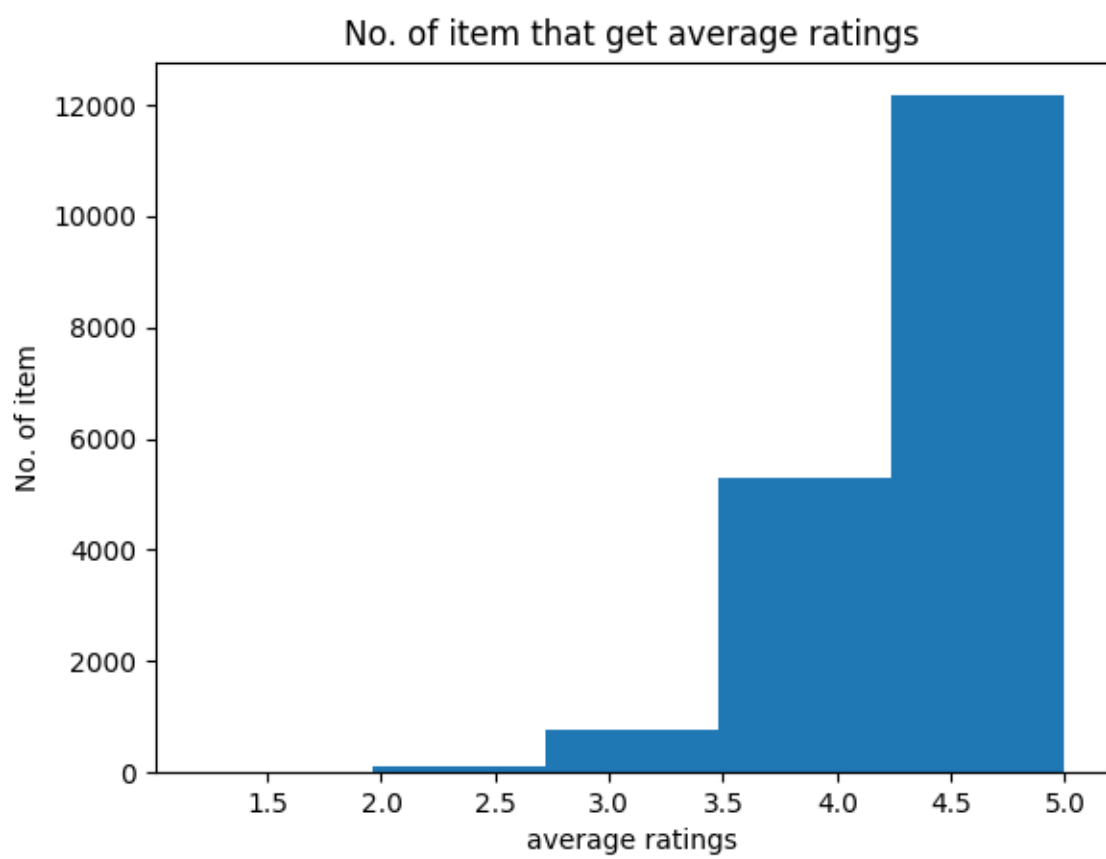


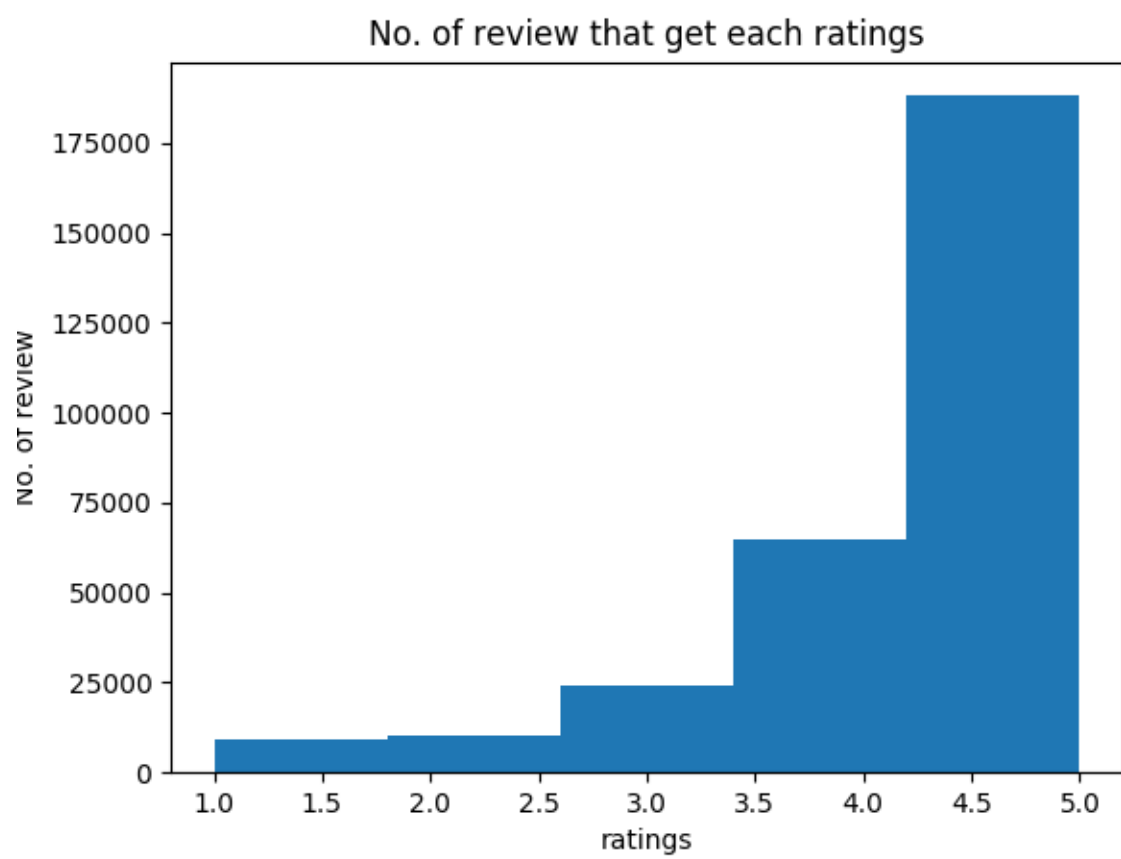


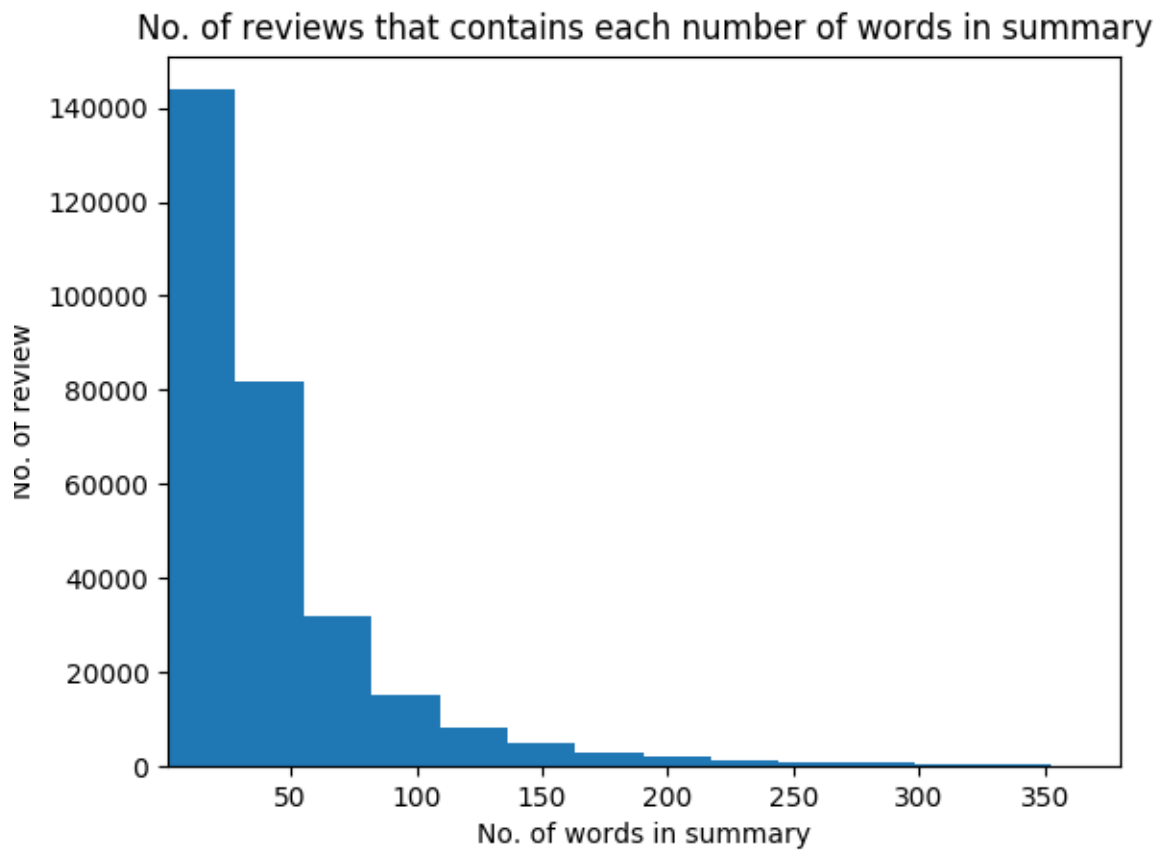




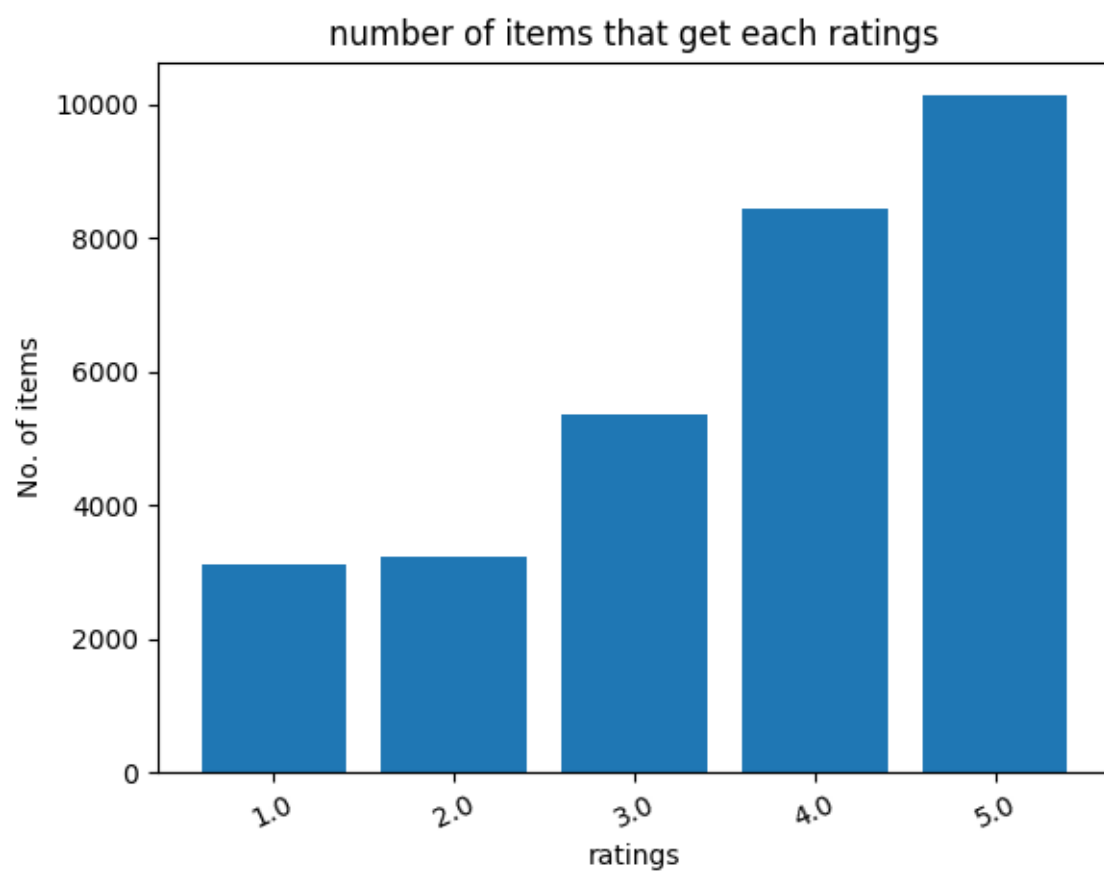


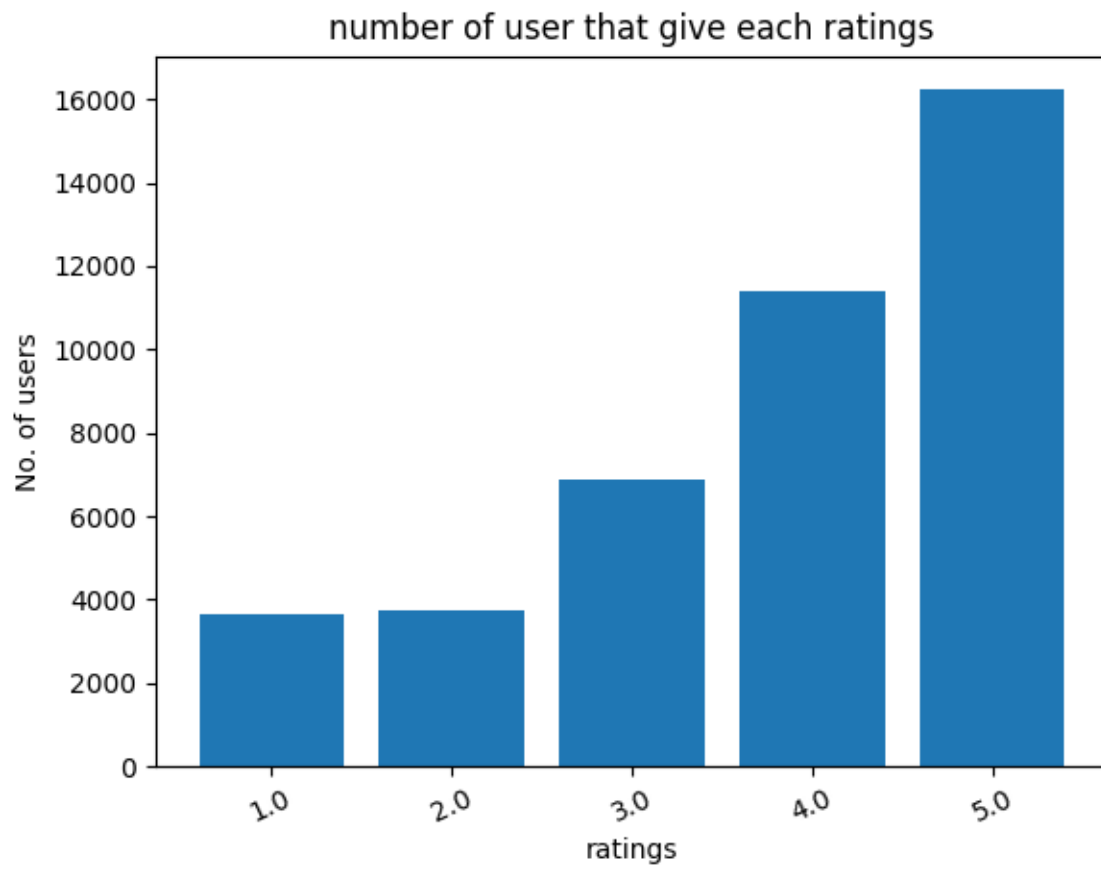


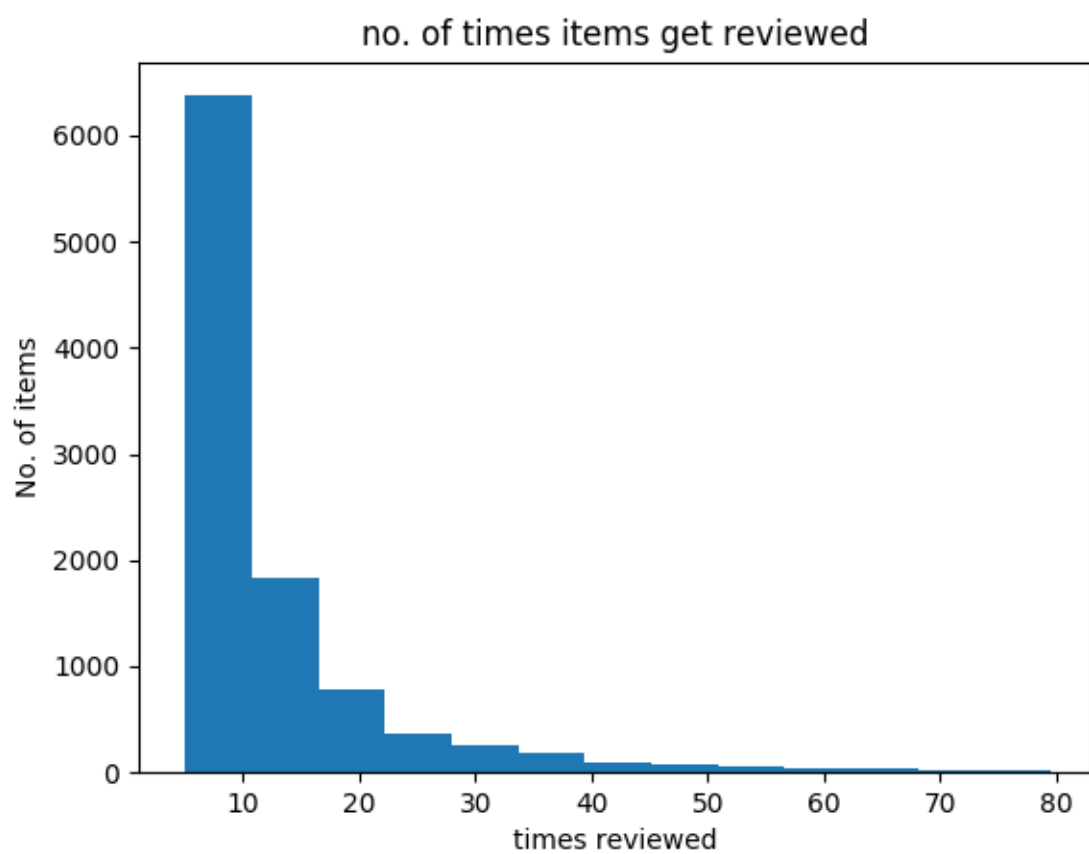


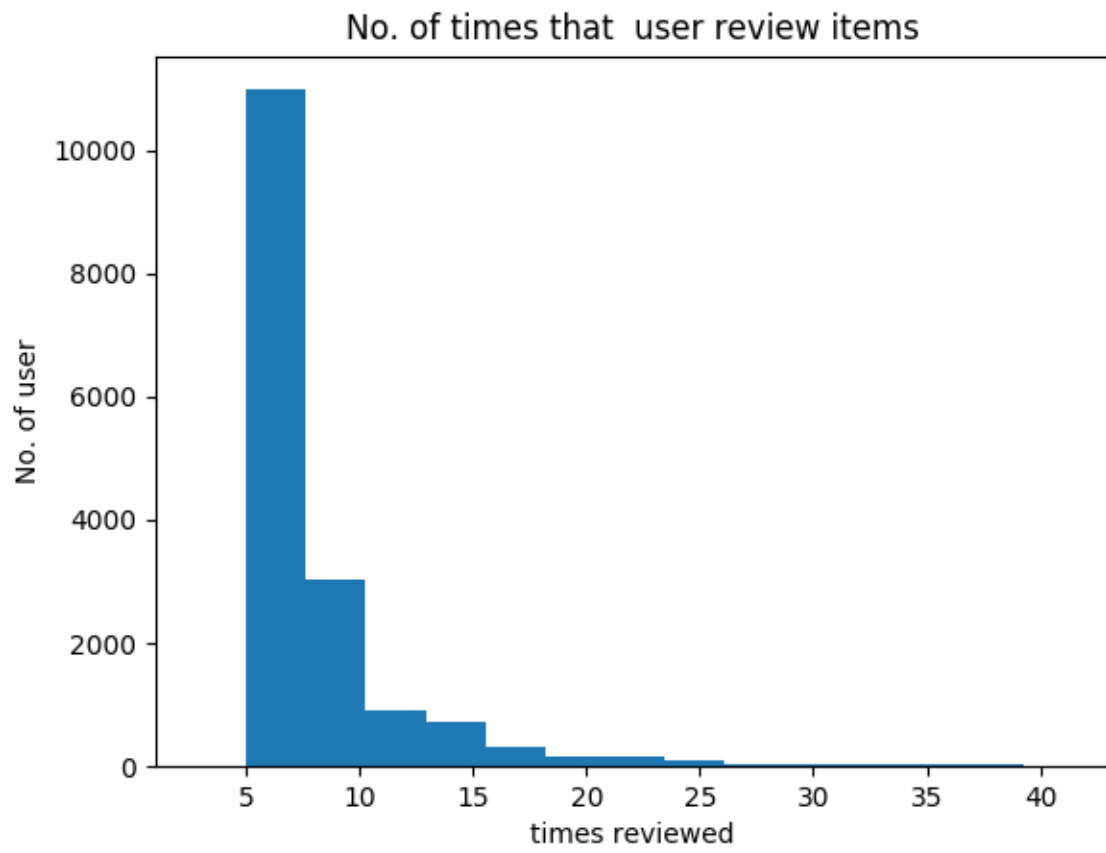


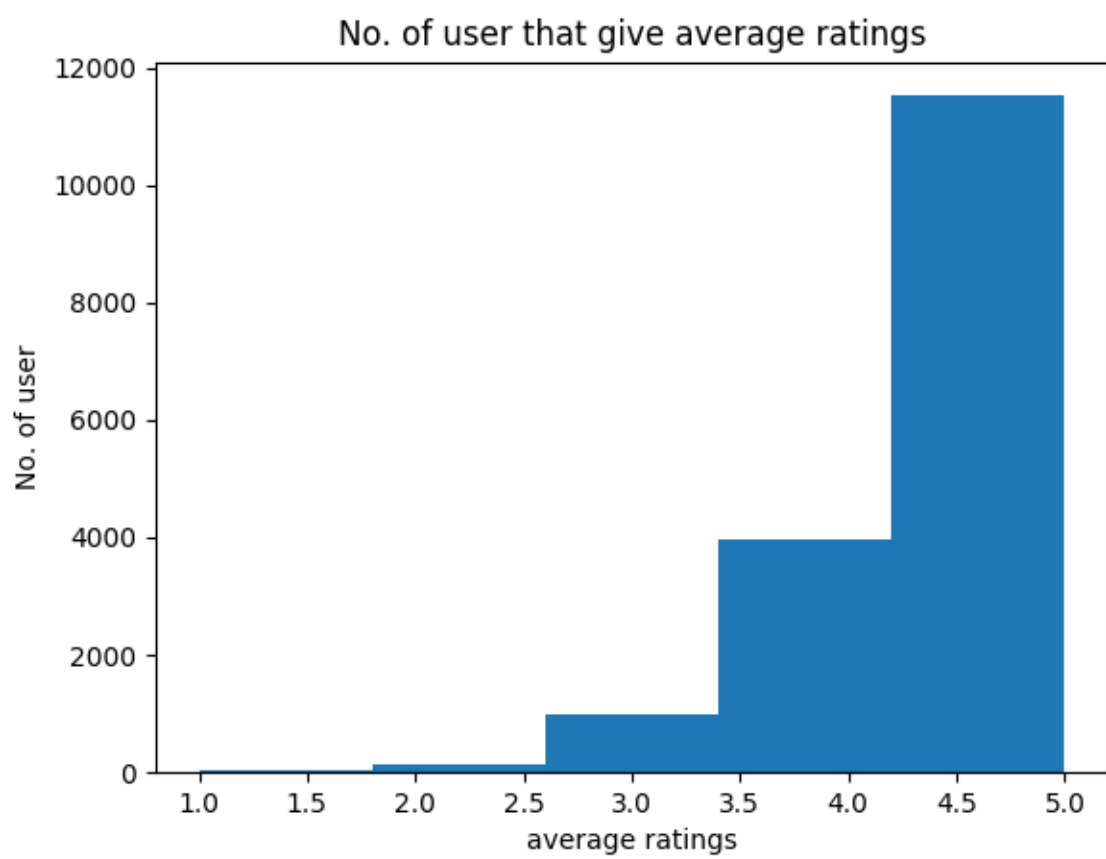
22)Tools and home improvement

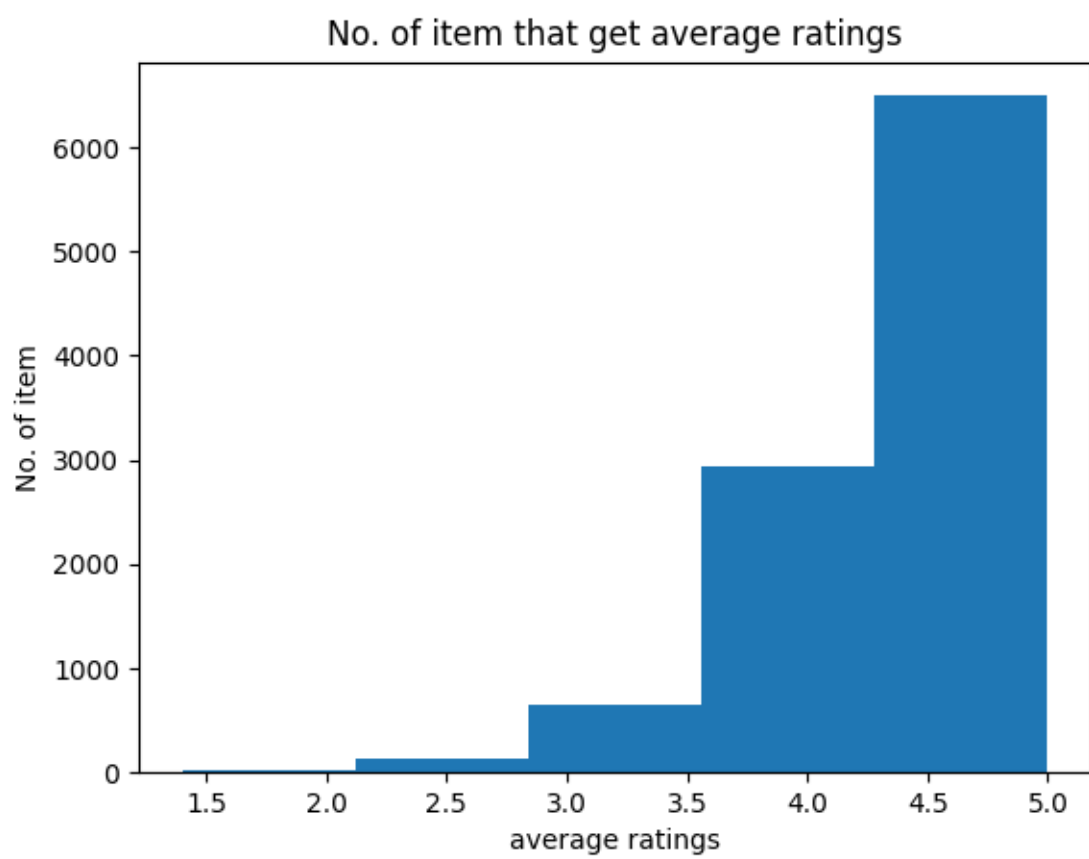


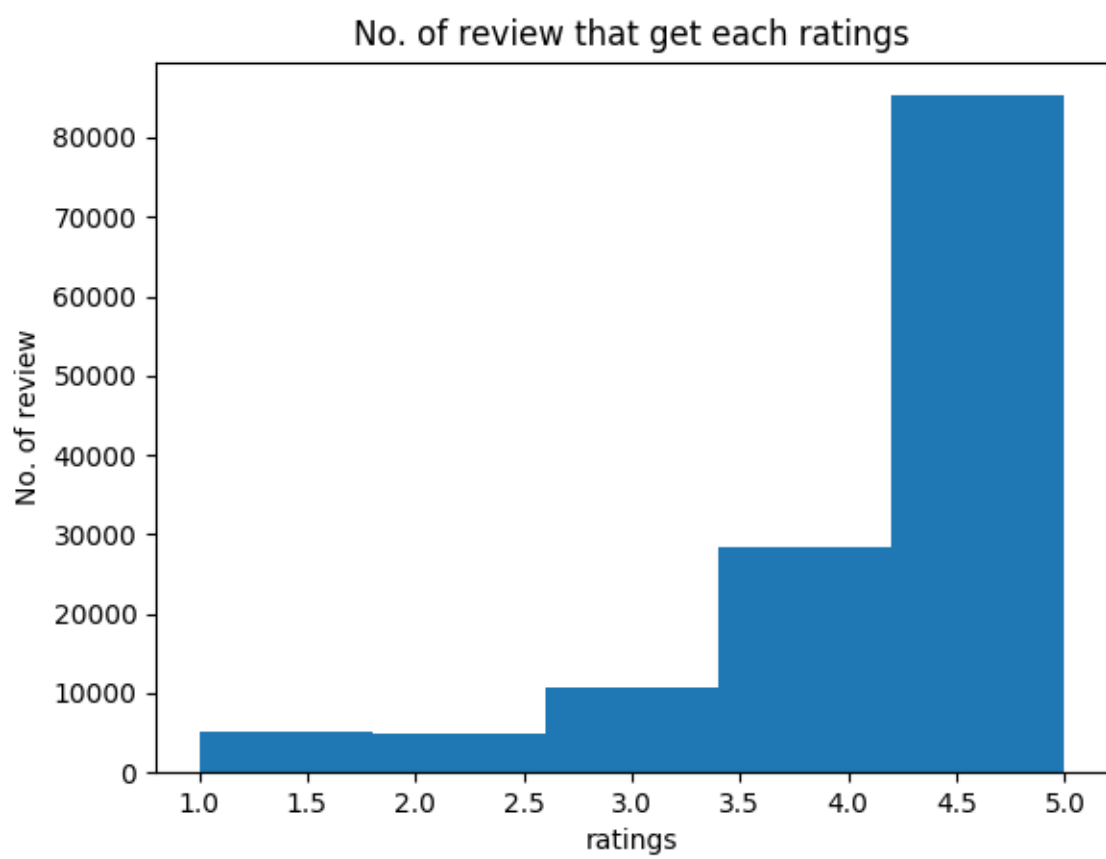


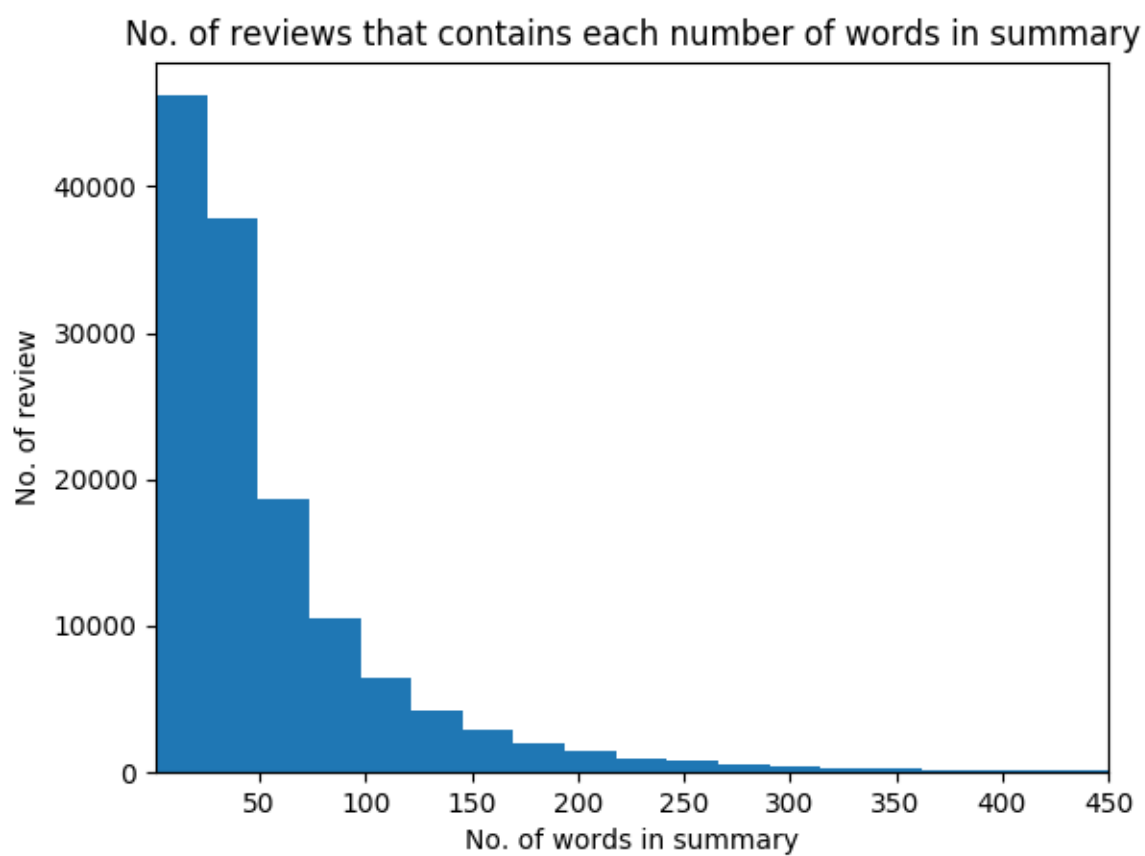




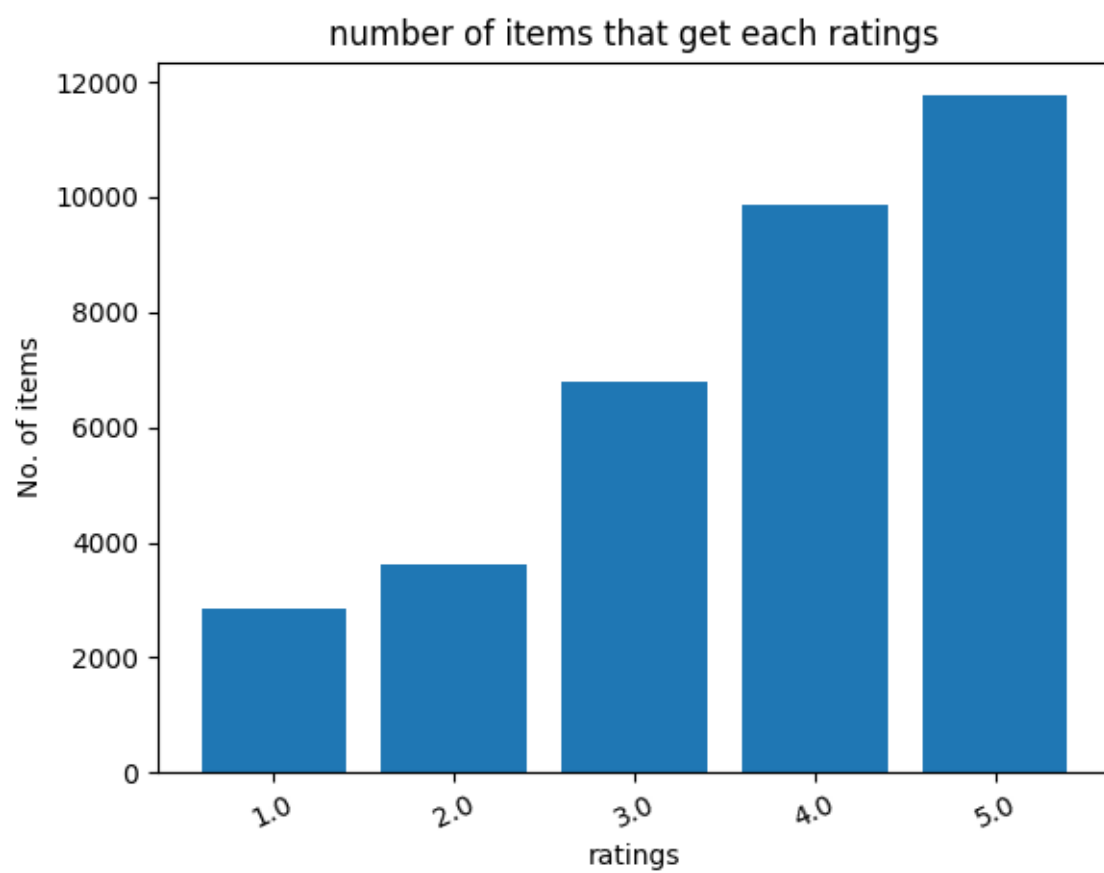


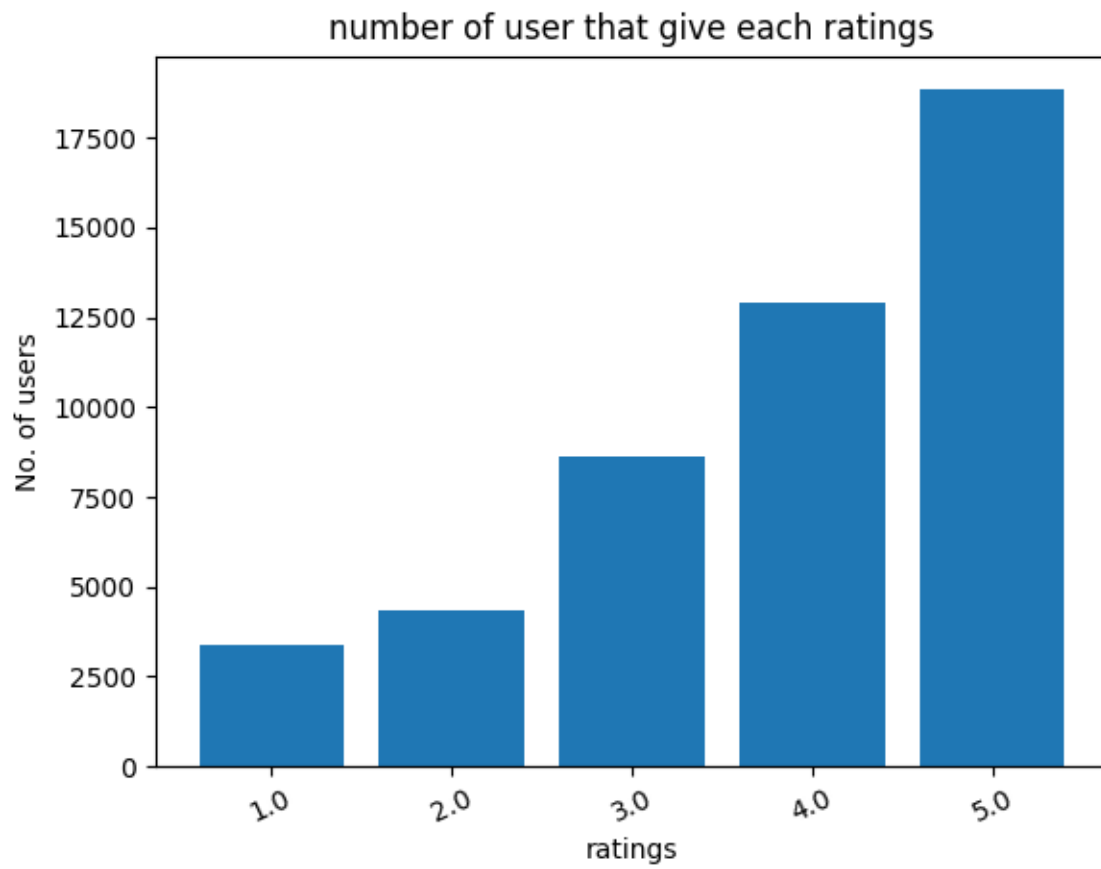


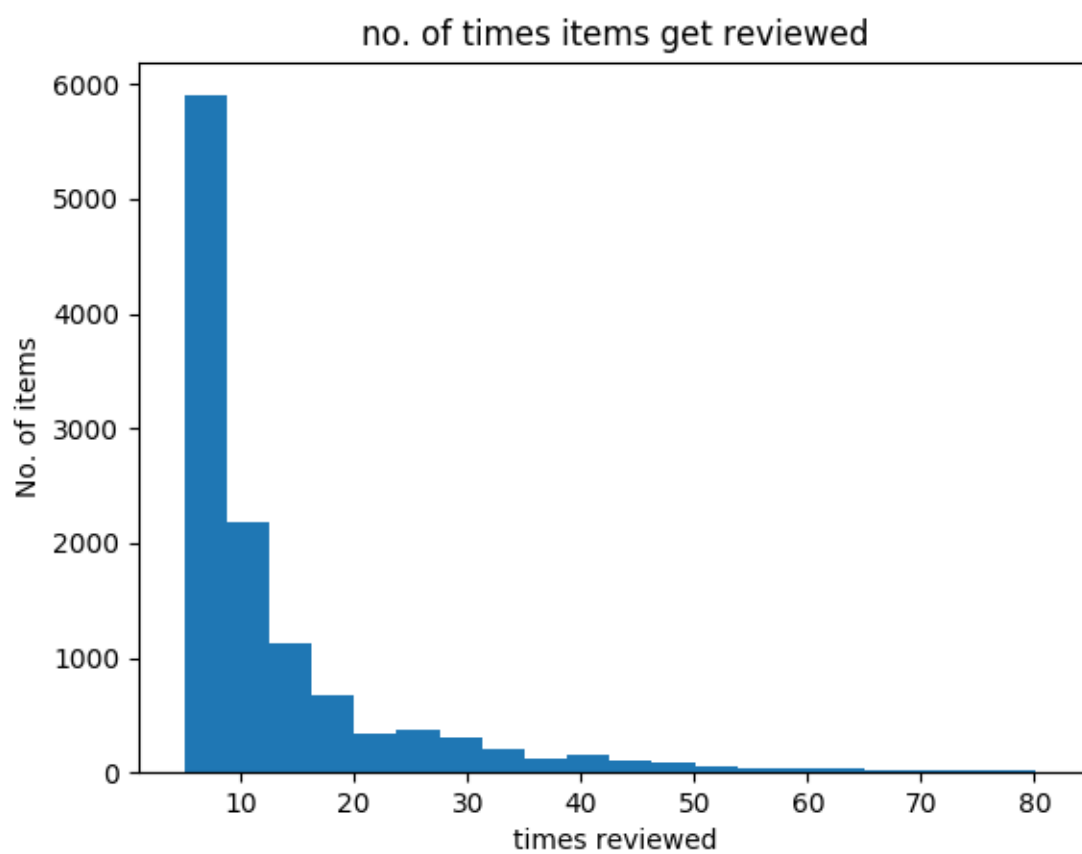


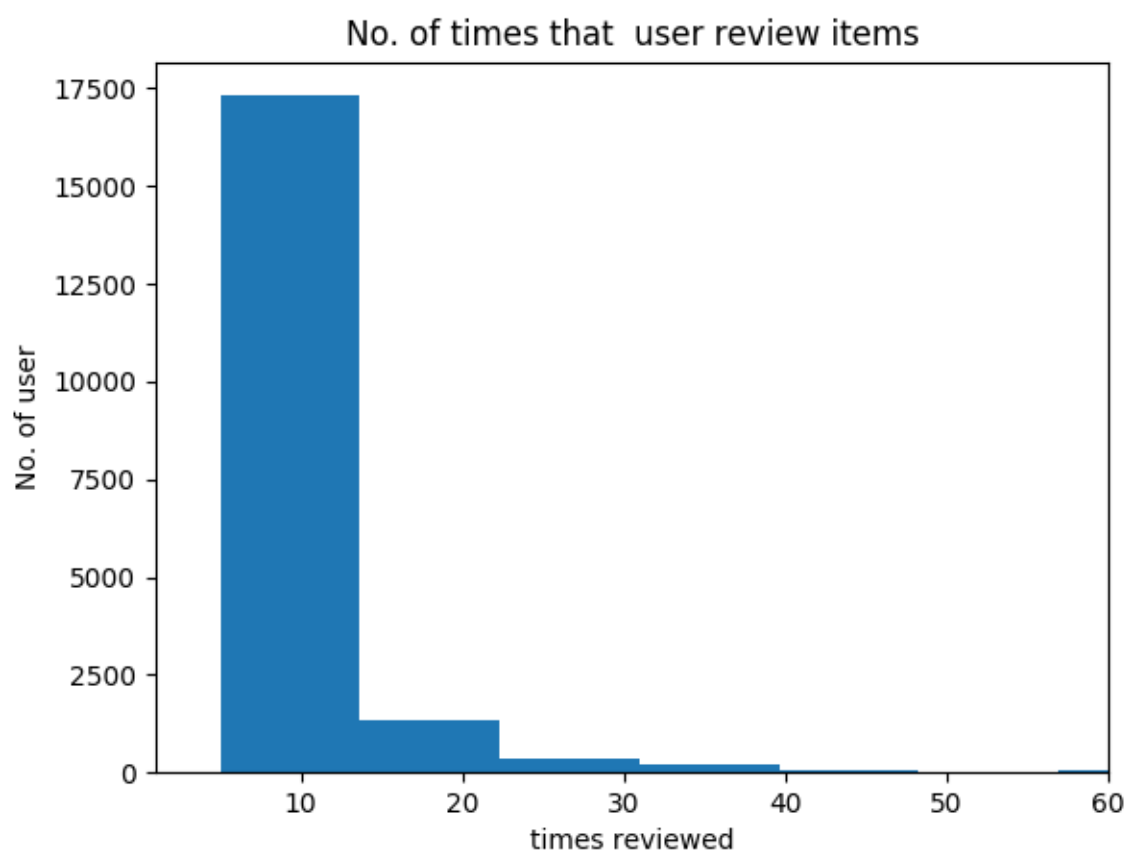


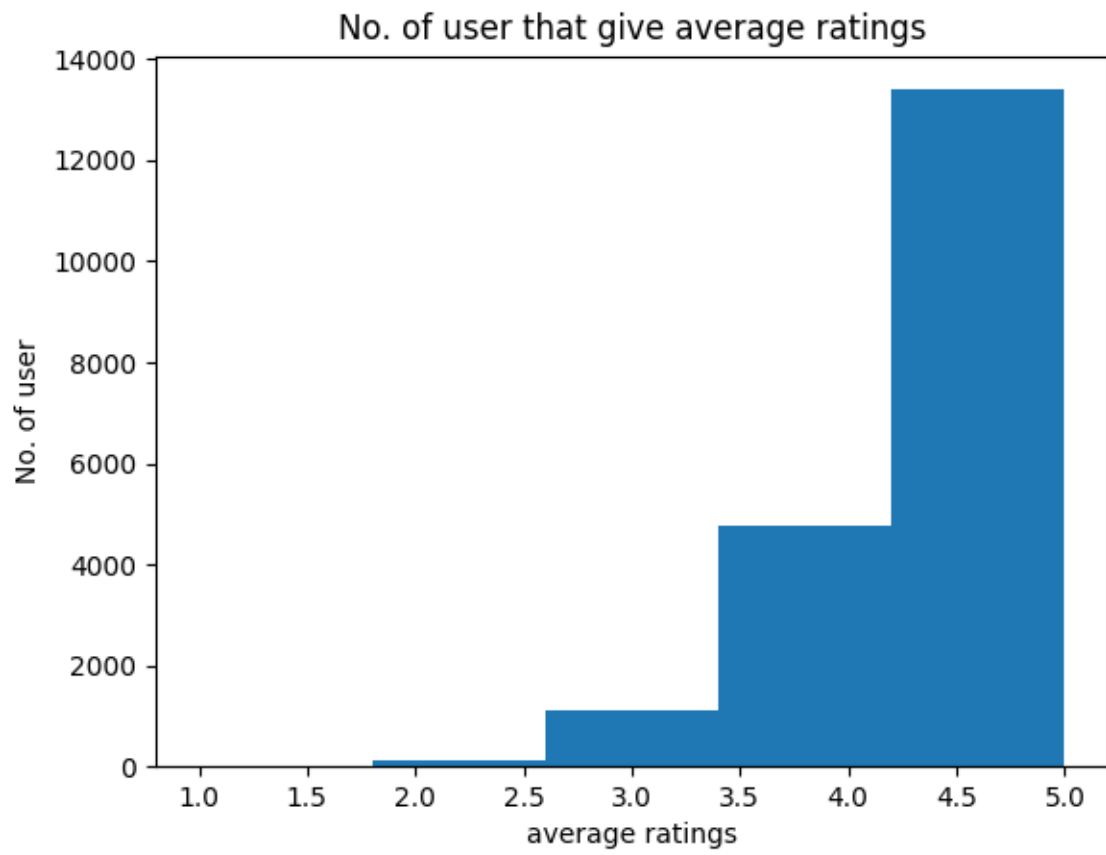
23) Toys and games

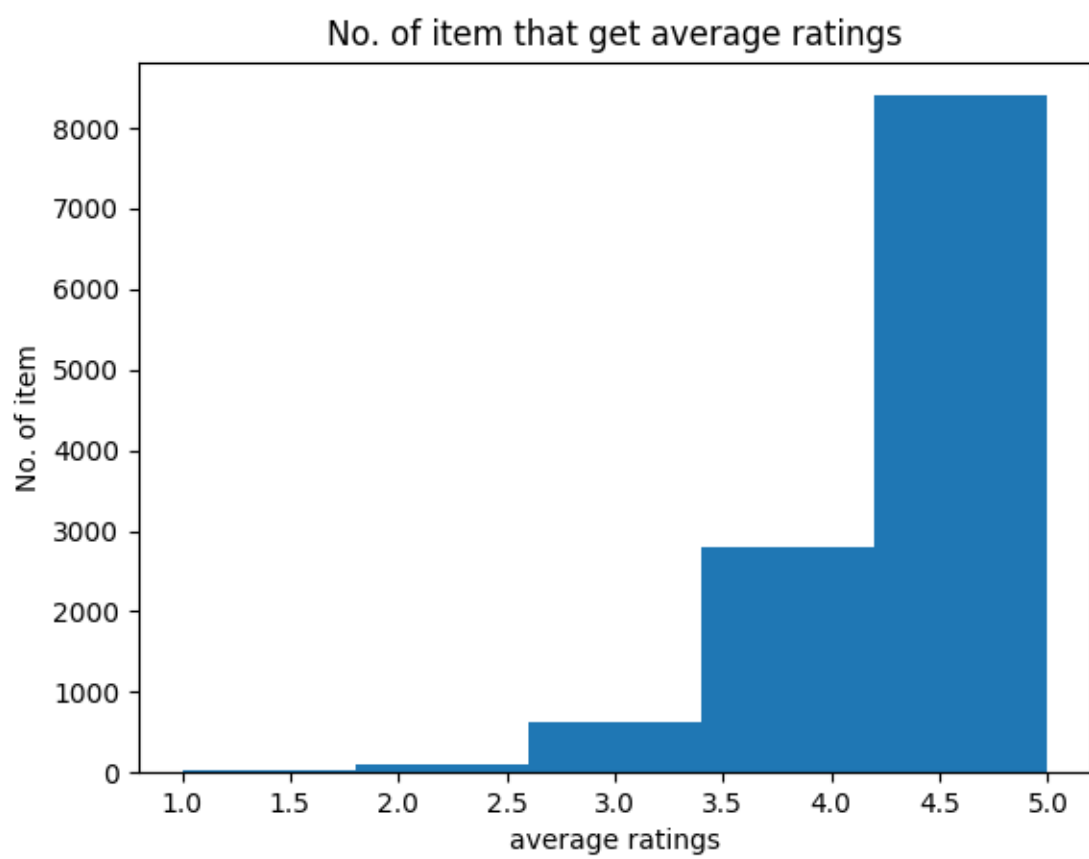


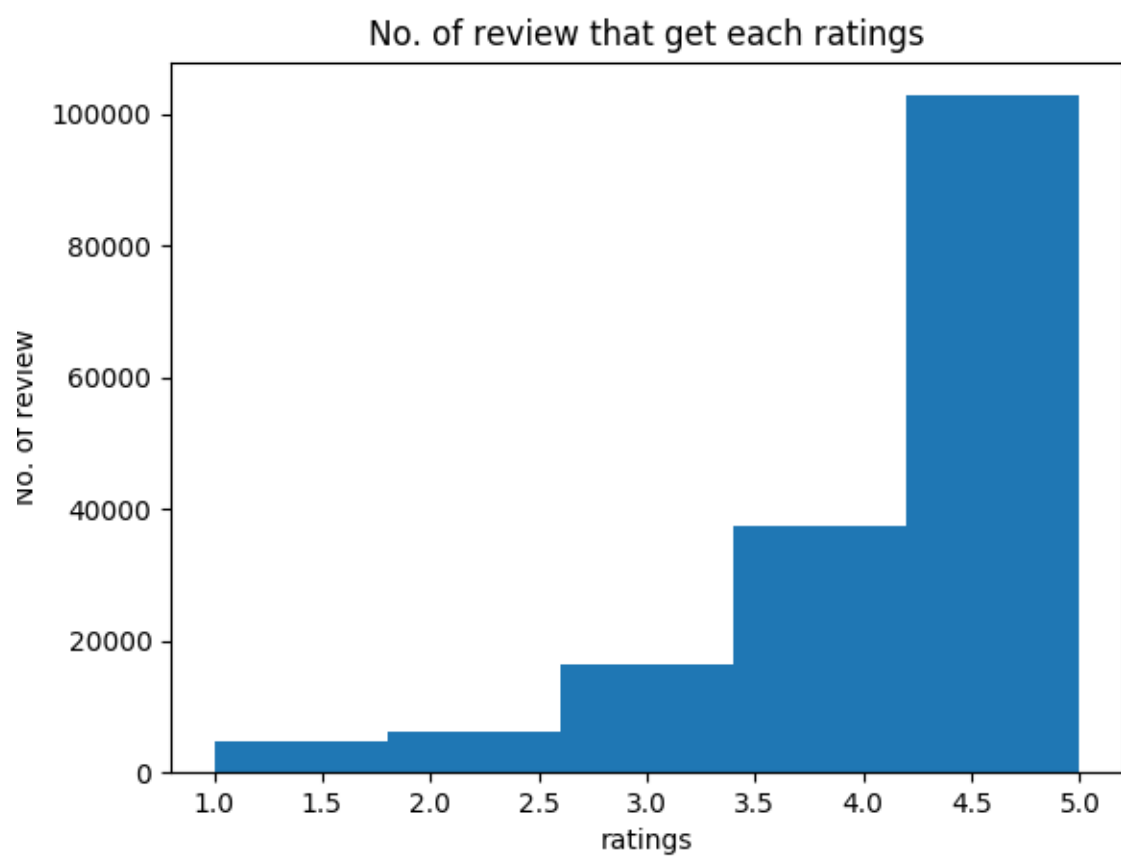


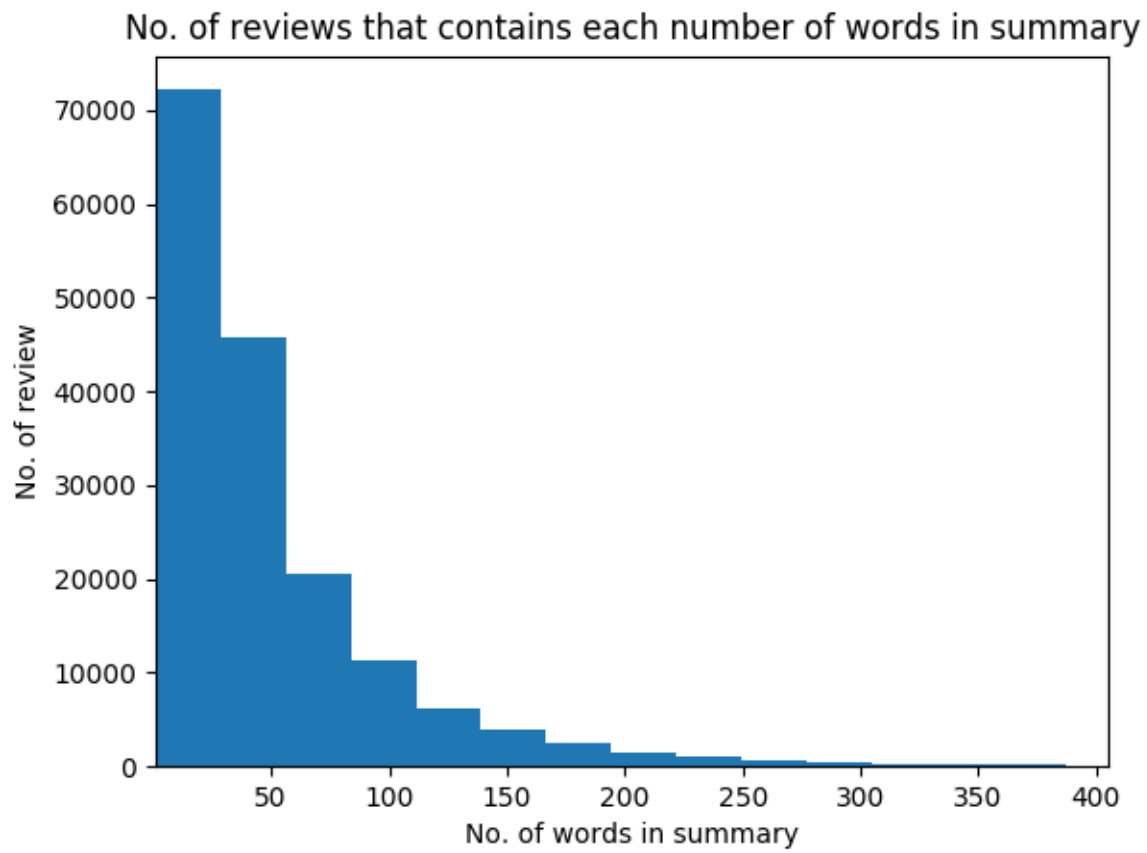




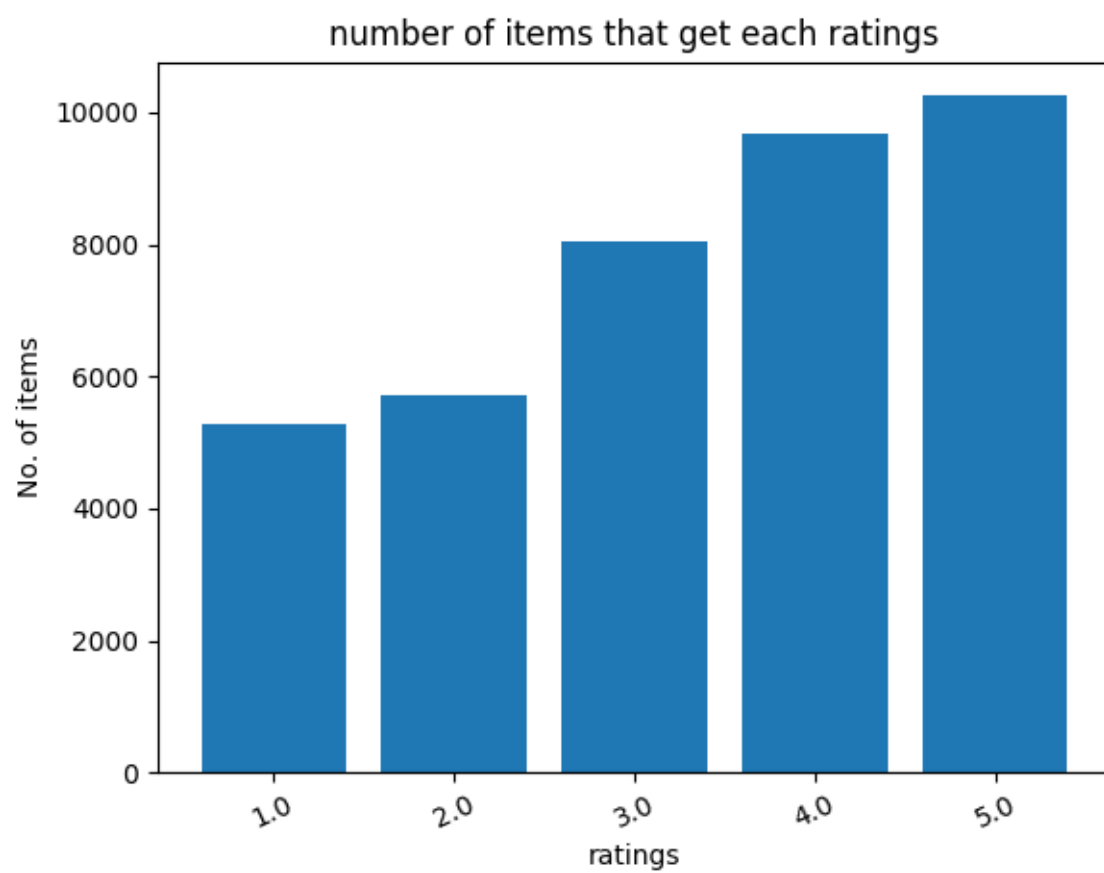


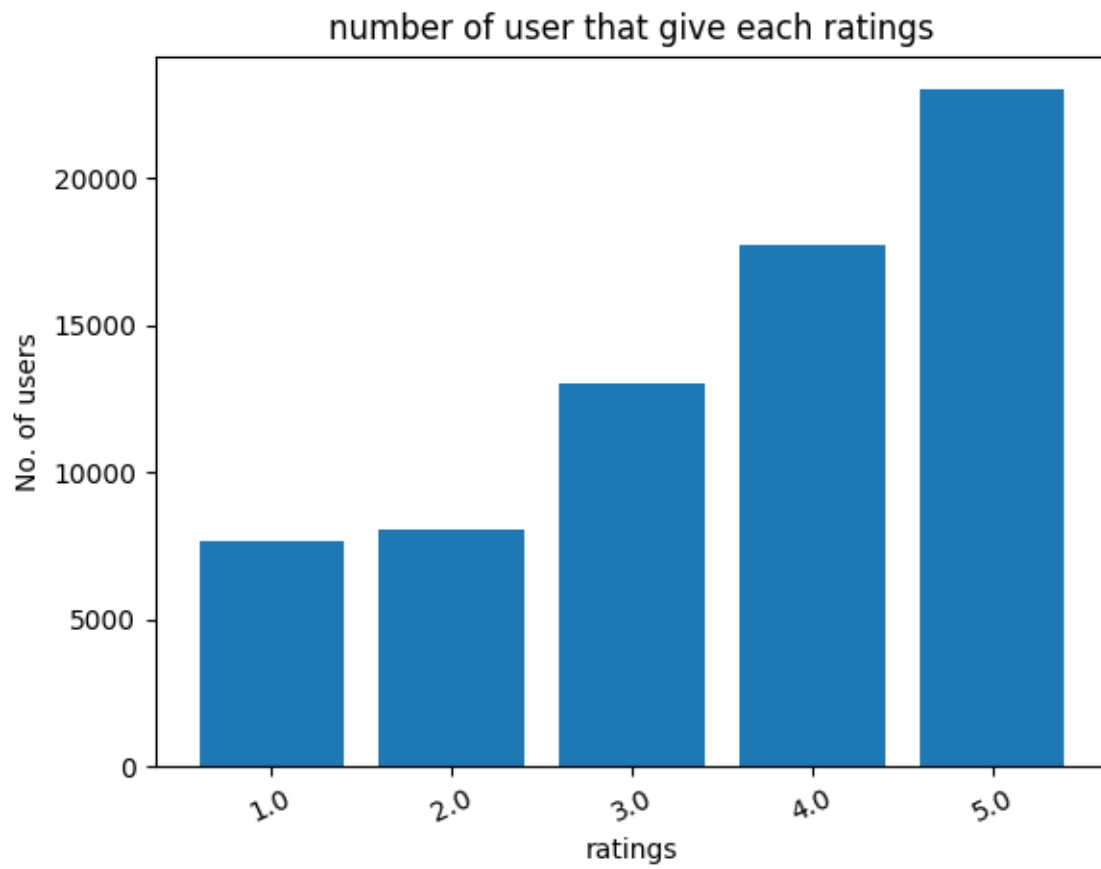


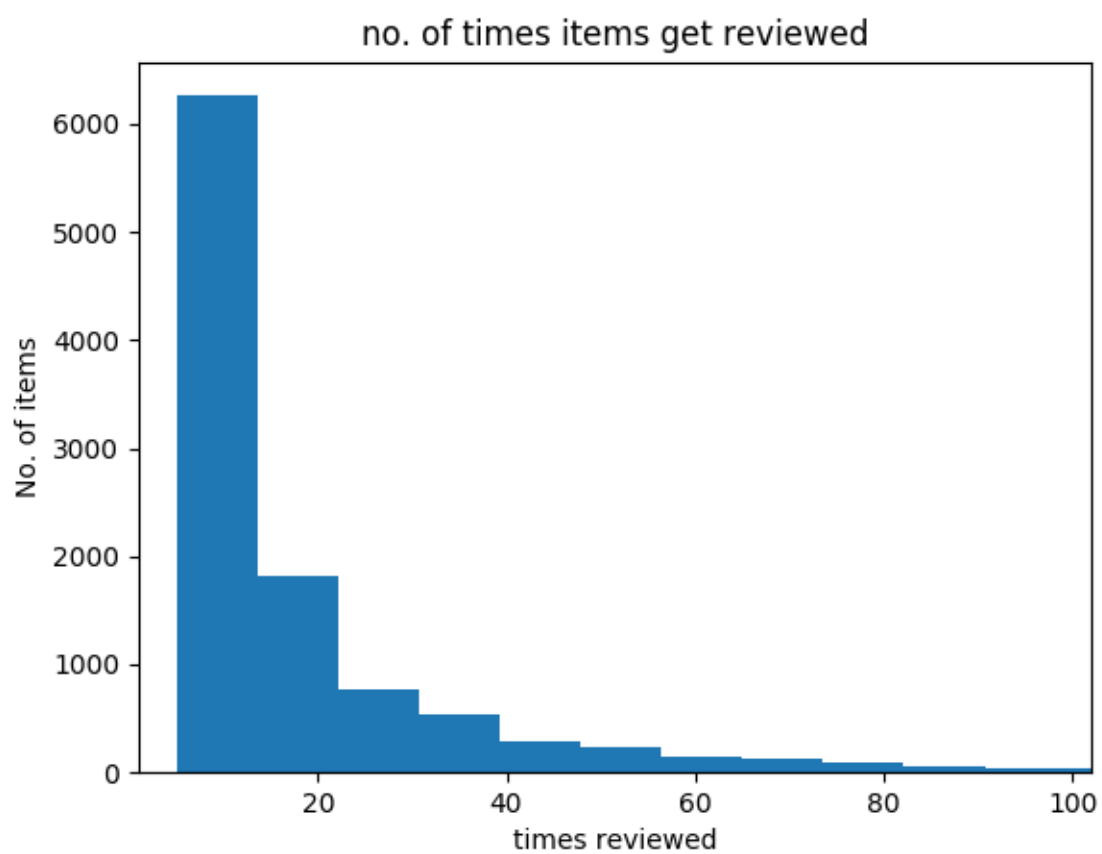


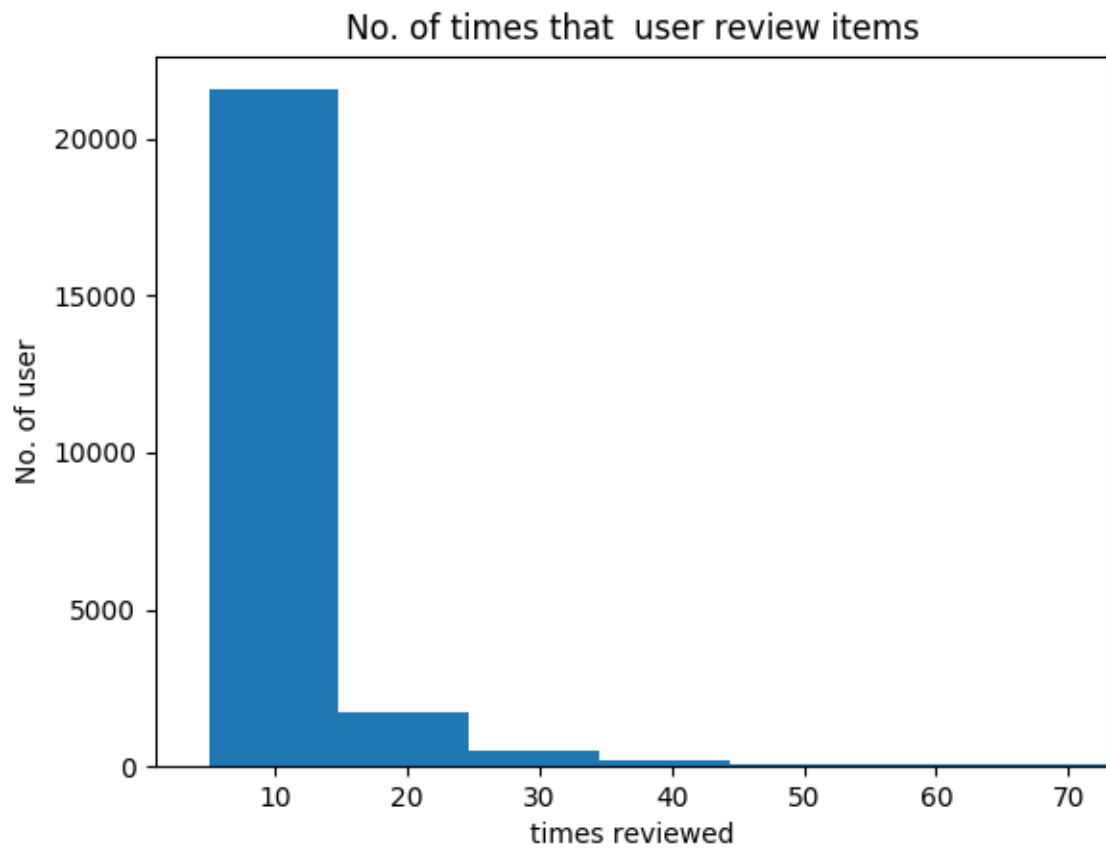


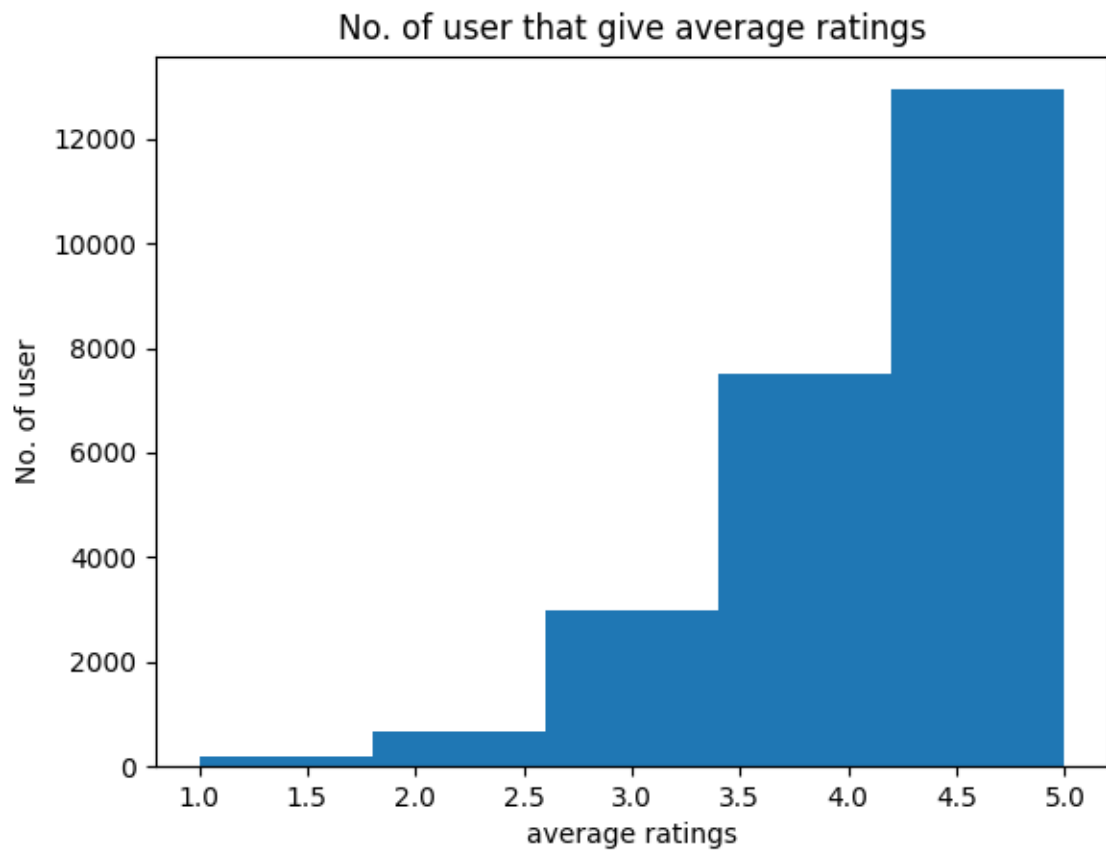
24)Video Games

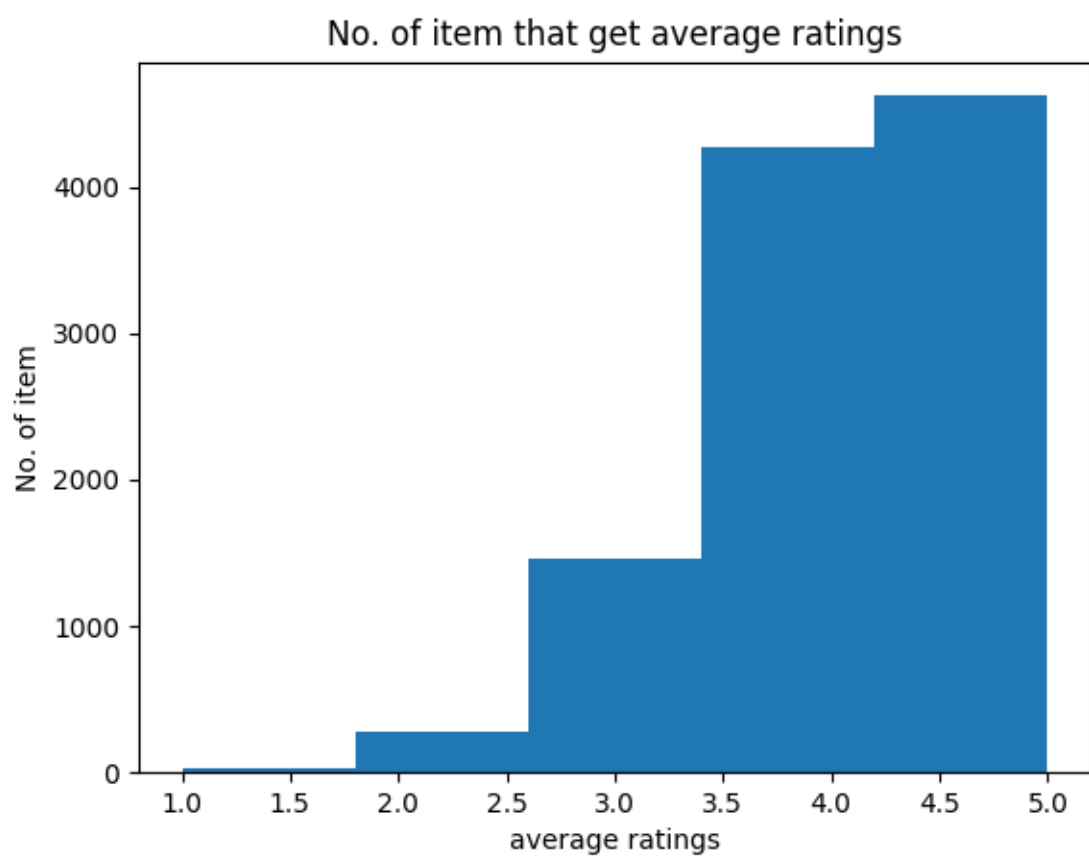


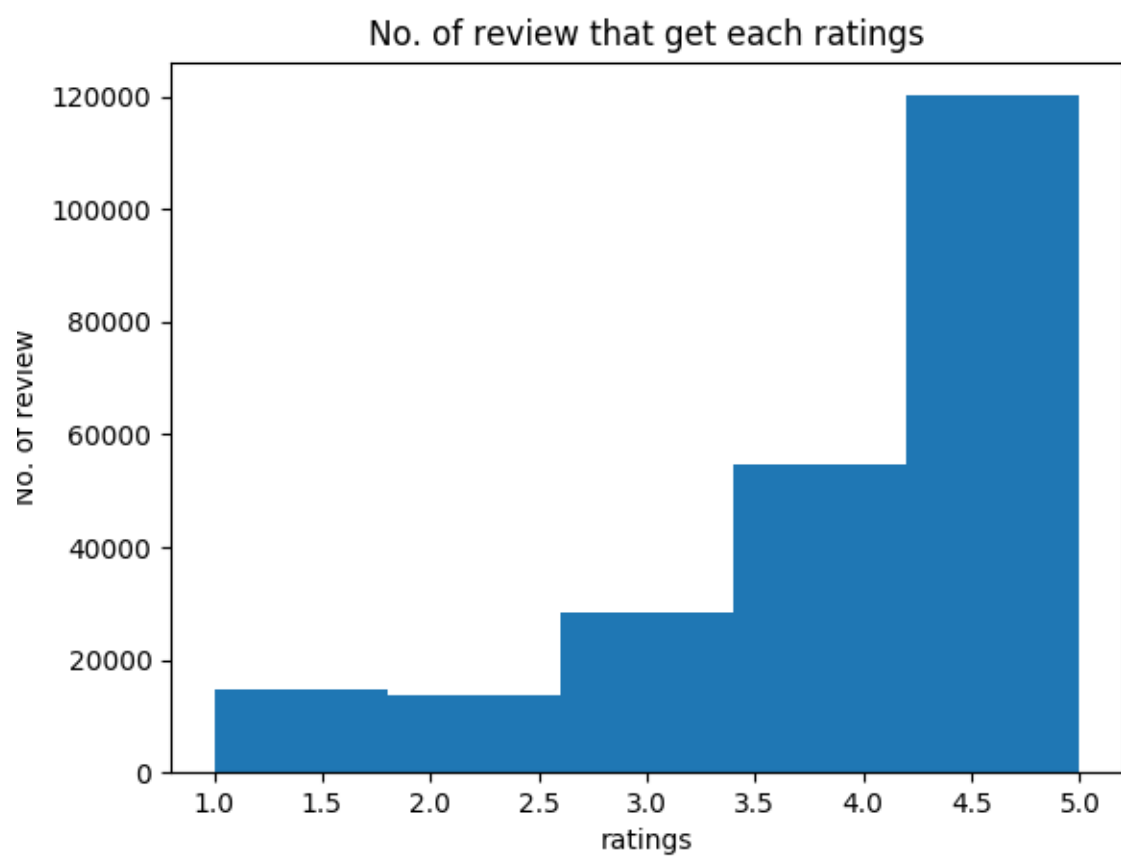


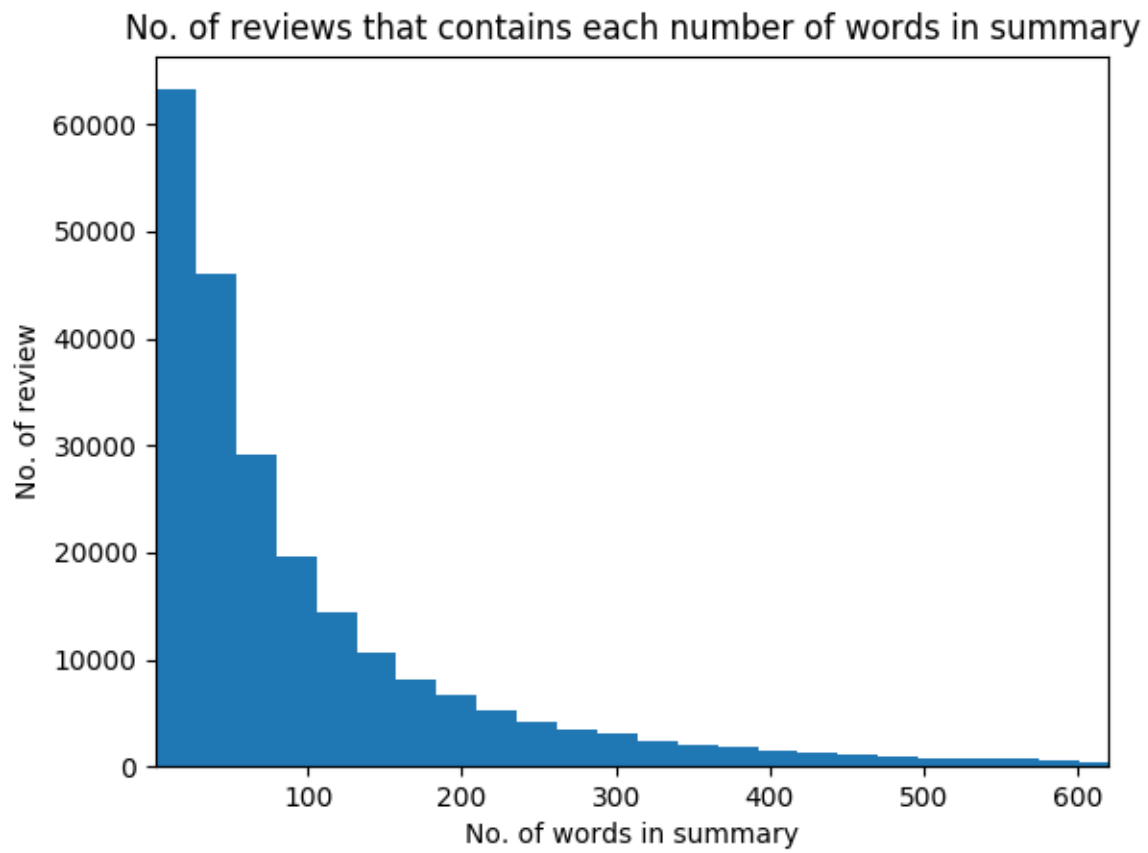












Basic Statistics of Amazon data:

dept	items	users	ratings	avg. rating	variance
Instant video	1685	5130	37126	4.20	1.25
Apps for Android	13209	87271	752937	3.96	1.80
Automotive	1835	2928	20473	4.471	0.8842
Baby	7050	19445	160792	4.21	1.309
Beauty	12101	22363	198502	4.190	1.360
Books					
CDs and Vinyl	64443	75258	1097592	4.294	1.152
Cell Phones and Accessories	10429	27879	194439	4.129	1.494
Clothing Shoes and Jewelry	23033	39387	278677	4.2451	1.21825
Digital Music	3568	5541	64706	4.222	1.1795
Electronics	63001	192403	1689188	4.2227	1.405
Grocery and Gourmet Food	8713	14681	151254	4.24304	1.188
Health and Personal Care	18534	38609	346355	4.274	1.254
Home and Kitchen	28237	66519	551682	4.316	1.233
Kindle Store	61934	68223	982619	4.347	0.912
Movies and TV	50052	123960	1697533	4.11064	1.4342
Musical Instruments	900	1429	10261	4.488	0.8003
Office Products	2420	4905	53258	4.345	0.865
Patio Lawn and Garden	962	1686	13272	4.186	1.1753
Pet Supplies	8510	19856	157836	4.229	1.382
Sports and Outdoors	18357	35598	296337	4.3934	0.9739
Tools and Home Improvement	10217	16638	134467	4.365	1.072
Toys and Games	11924	19412	167597	4.356	0.987
Video Games	10672	24303	231780	4.086	1.445

dept	avg. (var.of users)	avg (var. of item)	var. (avg. of user)	var. (avg. of item)	avg. (summary)
Instant video	0.91	1.055	0.461	0.427	51.011
Apps for Android	1.42	1.82	0.5360	0.6285	23.01
Automotive	0.7646	0.8129	0.2591	0.1978	46.85
Baby	1.17	1.23	0.331	0.3277	51.47
Beauty	1.170	1.3189	0.4089	0.2785	47.270
Books					
CDs and Vinyl	0.912	0.8670	0.3626	0.2421	98.167
Cell Phones and Accessories	1.297	1.4304	0.457	0.3048	49.17
Clothing Shoes and Jewelry	1.027	1.122	0.366	0.2371	32.1533
Digital Music	0.9157	0.8911	0.4303	0.2676	111.96
Electronics	1.2202	1.32855	0.4236	0.3373	63.3503
Grocery and Gourmet Food	0.9796	1.06329	0.357	0.2465	51.78
Health and Personal Care	1.078	1.210	0.390	0.281	51.277
Home and Kitchen	1.091	1.158	0.3597	0.2864	52.58
Kindle Store	0.705	0.755	0.4199	0.2500	57.99
Movies and TV	1.082	1.1472	0.488	0.438	89.852
Musical Instruments	0.733	0.779	0.212	0.162	49.25
Office Products	0.7737	0.909	0.2686	0.220	78.802
Patio Lawn and Garden	1.002	0.946	0.334	0.297	83.59
Pet Supplies	1.204	1.279	0.371	0.289	46.89
Sports and Outdoors	0.865	0.931	0.271	0.214	47.167
Tools and Home Improvement	0.947	0.994	0.313	0.251	59.372
Toys and Games	0.824	0.865	0.304	0.277	53.32
Video Games	1.151	1.265	0.496	0.377	111.084