

Usefulness of a review: Reviews.cv

/Users/sampurna/anaconda/bin/python /Users/sampurna/Documents/mlcode/ProjectHome.py

[0. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14.
15. 16. 17. 18. 20. 21. 23. 31. 36. 37. 39. 40. 51. 52.]

[0. 1.]

SVM classifier:

[1.91580560e+00 6.48468422e+02 7.91310621e+03 5.65072212e+03
3.44161310e+02 2.81021553e+02 4.48743634e+02 5.01874460e+00
2.93310573e+03 2.82913529e+03 2.99247888e+03 3.16078376e+03
2.41242278e+03]

Review_Stars

Is User Elite

Cross validation score - 2 attributes :[0.99033494 0.99033494 0.9905 0.99049842
0.99049842]

Review_Stars

Is User Elite

Friends

Cross validation score - 3 attributes :[0.99033494 0.99050158 0.9905 0.99033172
0.99033172]

Review_Stars

Is User Elite

Friends

Fans

Cross validation score - 4 attributes :[0.99066822 0.99083486 0.99 0.99033172
0.99049842]

Review_Stars

Is User Elite

Friends

Fans

Funny_Votes

Cross validation score - 5 attributes :[0.99050158 0.9910015 0.99033333 0.99083181
0.98999833]

Review_Stars

Is User Elite

Friends

Fans

Funny_Votes

Cool_Votes

Cross validation score - 6 attributes :[0.99016831 0.99050158 0.991 0.99066511
0.99016503]

Review_Stars

Is User Elite
Friends
Fans
Funny_Votes
Cool_Votes
User Elite in Current Year
Cross validation score - 7 attributes :[0.98983503 0.99050158 0.99083333 0.99016503
0.99016503]

Review_Stars
Is User Elite
Friends
Fans
Funny_Votes
Cool_Votes
User Elite in Current Year
Review_Length
Cross validation score - 8 attributes :[0.99016831 0.99016831 0.99033333 0.99033172
0.99033172]

Review_Stars
Is User Elite
Friends
Fans
Funny_Votes
Cool_Votes
User Elite in Current Year
Review_Length
User Cool Votes
Cross validation score - 9 attributes :[0.99033494 0.99016831 0.99033333 0.99033172
0.99049842]

Review_Stars
Is User Elite
Friends
Fans
Funny_Votes
Cool_Votes
User Elite in Current Year
Review_Length
User Cool Votes
User Stars
Cross validation score - 10 attributes :[0.99033494 0.99016831 0.99033333 0.99033172
0.99049842]

Review_Stars
Is User Elite
Friends
Fans

Funny_Votes
Cool_Votes
User Elite in Current Year
Review_Length
User Cool Votes
User Stars
User Funny Votes
Cross validation score - 11 attributes :[0.99033494 0.99016831 0.99033333 0.99033172
0.99049842]

Review_Stars
Is User Elite
Friends
Fans
Funny_Votes
Cool_Votes
User Elite in Current Year
Review_Length
User Cool Votes
User Stars
User Funny Votes
User Useful Votes
Cross validation score - 12 attributes :[0.99033494 0.99016831 0.99033333 0.99033172
0.99049842]

Logistic regression:
[1.91580560e+00 6.48468422e+02 7.91310621e+03 5.65072212e+03
3.44161310e+02 2.81021553e+02 4.48743634e+02 5.01874460e+00
2.93310573e+03 2.82913529e+03 2.99247888e+03 3.16078376e+03
2.41242278e+03]

Review_Stars
Is User Elite
Cross validation score - 2 attributes :[0.99033494 0.99033494 0.9905 0.99049842
0.99049842]

Review_Stars
Is User Elite
Friends
Cross validation score - 3 attributes :[0.99050158 0.99066822 0.99066667 0.99016503
0.99033172]

Review_Stars
Is User Elite
Friends
Fans
Cross validation score - 4 attributes :[0.99116814 0.99050158 0.98966667 0.9909985
0.99049842]

Review_Stars
Is User Elite
Friends
Fans
Funny_Votes
Cross validation score - 5 attributes :[0.99266789 0.99150142 0.991 0.99133189
0.98899817]

Review_Stars
Is User Elite
Friends
Fans
Funny_Votes
Cool_Votes
Cross validation score - 6 attributes :[0.99300117 0.99283453 0.99266667 0.99299883
0.99083181]

Review_Stars
Is User Elite
Friends
Fans
Funny_Votes
Cool_Votes
User Elite in Current Year
Cross validation score - 7 attributes :[0.99316781 0.99283453 0.99283333 0.99299883
0.99083181]

Review_Stars
Is User Elite
Friends
Fans
Funny_Votes
Cool_Votes
User Elite in Current Year
Review_Length
Cross validation score - 8 attributes :[0.99333444 0.99316781 0.99316667 0.99283214
0.99049842]

Review_Stars
Is User Elite
Friends
Fans
Funny_Votes
Cool_Votes
User Elite in Current Year
Review_Length
User Cool Votes

Cross validation score - 9 attributes :[0.99333444 0.99300117 0.993 0.99266544
0.99083181]

Review_Stars
Is User Elite
Friends
Fans
Funny_Votes
Cool_Votes
User Elite in Current Year
Review_Length
User Cool Votes
User Stars

Cross validation score - 10 attributes :[0.99333444 0.99266789 0.993 0.99283214
0.99083181]

Review_Stars
Is User Elite
Friends
Fans
Funny_Votes
Cool_Votes
User Elite in Current Year
Review_Length
User Cool Votes
User Stars

User Funny Votes
Cross validation score - 11 attributes :[0.99316781 0.99266789 0.993 0.99299883
0.99066511]

Review_Stars
Is User Elite
Friends
Fans
Funny_Votes
Cool_Votes
User Elite in Current Year
Review_Length
User Cool Votes
User Stars
User Funny Votes
User Useful Votes

Cross validation score - 12 attributes :[0.99333444 0.99216797 0.99316667 0.99333222
0.99066511]

Naive Bayes classifier:

[1.91580560e+00 6.48468422e+02 7.91310621e+03 5.65072212e+03
3.44161310e+02 2.81021553e+02 4.48743634e+02 5.01874460e+00
2.93310573e+03 2.82913529e+03 2.99247888e+03 3.16078376e+03

2.41242278e+03]

Review_Stars

Is User Elite

Cross validation score - 2 attributes :[0.99033494 0.99033494 0.9905 0.99049842
0.99049842]

Review_Stars

Is User Elite

Friends

Cross validation score - 3 attributes :[0.9661723 0.97433761 0.97566667 0.98083014
0.98716453]

Review_Stars

Is User Elite

Friends

Fans

Cross validation score - 4 attributes :[0.9721713 0.97933678 0.969 0.97616269
0.98599767]

Review_Stars

Is User Elite

Friends

Fans

Funny_Votes

Cross validation score - 5 attributes :[0.970005 0.97667055 0.96616667 0.97366228
0.97432905]

Review_Stars

Is User Elite

Friends

Fans

Funny_Votes

Cool_Votes

Cross validation score - 6 attributes :[0.96333944 0.97083819 0.96216667 0.9729955
0.97132855]

Review_Stars

Is User Elite

Friends

Fans

Funny_Votes

Cool_Votes

User Elite in Current Year

Cross validation score - 7 attributes :[0.96167305 0.970005 0.9605 0.97182864
0.96966161]

Review_Stars

Is User Elite
Friends
Fans
Funny_Votes
Cool_Votes
User Elite in Current Year
Review_Length
Cross validation score - 8 attributes :[0.95917347 0.9670055 0.9595 0.97049508
0.97099517]

Review_Stars
Is User Elite
Friends
Fans
Funny_Votes
Cool_Votes
User Elite in Current Year
Review_Length
User Cool Votes
Cross validation score - 9 attributes :[0.96383936 0.96950508 0.9615 0.97149525
0.9728288]

Review_Stars
Is User Elite
Friends
Fans
Funny_Votes
Cool_Votes
User Elite in Current Year
Review_Length
User Cool Votes
User Stars
Cross validation score - 10 attributes :[0.9631728 0.96950508 0.962 0.97149525
0.97349558]

Review_Stars
Is User Elite
Friends
Fans
Funny_Votes
Cool_Votes
User Elite in Current Year
Review_Length
User Cool Votes
User Stars
User Funny Votes
Cross validation score - 11 attributes :[0.96567239 0.97200467 0.96433333 0.97149525
0.97382897]

Review_Stars
Is User Elite
Friends
Fans
Funny_Votes
Cool_Votes
User Elite in Current Year
Review_Length
User Cool Votes
User Stars
User Funny Votes
User Useful Votes
Cross validation score - 12 attributes :[0.96717214 0.97283786 0.96533333 0.97232872
0.97349558]

Process finished with exit code 0

Business Ratings : Users.cv

/Users/sampurna/anaconda/bin/python /Users/sampurna/Documents/mlcode/ProjectHome.py
[0. 1.]
SVM classifier:
[473.18953207 11929.34112159 12733.5433194 9140.7207508
7494.40433972 14915.18422644 367.9197023 297542.47026863
2890.10080069 6497.54039446 2917.61668377 2032.90065762
1275.85378166]

Fans
Review_Star_Rating
Cross validation score - 2 attributes :[0.96012749 0.95881507 0.958375 0.95780986
0.9583724]

Fans
Review_Star_Rating
Review_Cool
Cross validation score - 3 attributes :[0.96012749 0.95812762 0.957125 0.95724733
0.9583724]

Fans
Review_Star_Rating
Review_Cool
No_of_Reviews
Cross validation score - 4 attributes :[0.96056496 0.95856509 0.9571875 0.95624727
0.95793487]

Fans
Review_Star_Rating
Review_Cool
No_of_Reviews
Elite_Years
Cross validation score - 5 attributes :[0.99943754 0.99937504 0.9994375 0.99974998
0.99931246]

Fans
Review_Star_Rating
Review_Cool
No_of_Reviews
Elite_Years
Review_Funny
Cross validation score - 6 attributes :[0.99900006 0.99875008 0.9989375 0.99899994
0.99856241]

Fans
Review_Star_Rating
Review_Cool
No_of_Reviews
Elite_Years
Review_Funny
Stars
Cross validation score - 7 attributes :[0.99868758 0.99850009 0.9990625 0.99874992
0.99849991]

Fans
Review_Star_Rating
Review_Cool
No_of_Reviews
Elite_Years
Review_Funny
Stars
Review_Useful
Cross validation score - 8 attributes :[0.99825011 0.99737516 0.9985 0.99781236
0.99749984]

Fans
Review_Star_Rating
Review_Cool
No_of_Reviews
Elite_Years
Review_Funny
Stars
Review_Useful
Funny
Cross validation score - 9 attributes :[0.99812512 0.99700019 0.998375 0.99749984
0.99731233]

Fans
Review_Star_Rating
Review_Cool
No_of_Reviews
Elite_Years
Review_Funny
Stars
Review_Useful
Funny
Yelp_Months
Cross validation score - 10 attributes :[0.99762515 0.99637523 0.9975 0.99656229
0.9967498]

Fans
Review_Star_Rating
Review_Cool
No_of_Reviews
Elite_Years
Review_Funny
Stars
Review_Useful
Funny
Yelp_Months
Useful
Cross validation score - 11 attributes :[0.99756265 0.99625023 0.9974375 0.99643728
0.99618726]

Fans
Review_Star_Rating
Review_Cool
No_of_Reviews
Elite_Years
Review_Funny
Stars
Review_Useful
Funny
Yelp_Months
Useful
Cool
Cross validation score - 12 attributes :[0.99750016 0.99625023 0.9975 0.99631227
0.99599975]

Logistic regression:
[473.18953207 11929.34112159 12733.5433194 9140.7207508
7494.40433972 14915.18422644 367.9197023 297542.47026863
2890.10080069 6497.54039446 2917.61668377 2032.90065762
1275.85378166]

Fans
Review_Star_Rating
Cross validation score - 2 attributes :[0.94831573 0.94375352 0.945125 0.94668417
0.94912182]

Fans
Review_Star_Rating
Review_Cool
Cross validation score - 3 attributes :[0.95212799 0.94812824 0.9486875 0.94918432
0.94912182]

Fans
Review_Star_Rating
Review_Cool
No_of_Reviews
Cross validation score - 4 attributes :[0.94862821 0.94537841 0.945375 0.94630914
0.95005938]

Fans
Review_Star_Rating
Review_Cool
No_of_Reviews
Elite_Years
Cross validation score - 5 attributes :[1. 1. 0.9999375 1. 1.]

Fans
Review_Star_Rating
Review_Cool
No_of_Reviews
Elite_Years
Review_Funny
Cross validation score - 6 attributes :[1. 1. 0.9999375 1. 1.]

Fans
Review_Star_Rating
Review_Cool
No_of_Reviews
Elite_Years
Review_Funny
Stars
Cross validation score - 7 attributes :[1. 1. 0.9999375 1. 1.]

Fans
Review_Star_Rating
Review_Cool
No_of_Reviews
Elite_Years
Review_Funny

Stars
Review_Useful
Cross validation score - 8 attributes :[1. 1. 0.9999375 1. 1.]

Fans
Review_Star_Rating
Review_Cool
No_of_Reviews
Elite_Years
Review_Funny
Stars
Review_Useful
Funny
Cross validation score - 9 attributes :[1. 1. 0.9999375 1. 1.]

Fans
Review_Star_Rating
Review_Cool
No_of_Reviews
Elite_Years
Review_Funny
Stars
Review_Useful
Funny
Yelp_Months
Cross validation score - 10 attributes :[1. 1. 0.9999375 1. 1.]

Fans
Review_Star_Rating
Review_Cool
No_of_Reviews
Elite_Years
Review_Funny
Stars
Review_Useful
Funny
Yelp_Months
Useful
Cross validation score - 11 attributes :[1. 1. 0.999875 1. 1.]

Fans
Review_Star_Rating
Review_Cool
No_of_Reviews
Elite_Years
Review_Funny
Stars
Review_Useful
Funny

Yelp_Months

Useful

Cool

Cross validation score - 12 attributes :[1. 1. 0.999875 1. 1.]

Naive Bayes classifier:

[473.18953207 11929.34112159 12733.5433194 9140.7207508
7494.40433972 14915.18422644 367.9197023 297542.47026863
2890.10080069 6497.54039446 2917.61668377 2032.90065762
1275.85378166]

Fans

Review_Star_Rating

Cross validation score - 2 attributes :[0.93131679 0.92669208 0.925875 0.92568286
0.93268329]

Fans

Review_Star_Rating

Review_Cool

Cross validation score - 3 attributes :[0.92169239 0.91706768 0.917875 0.91436965
0.9199325]

Fans

Review_Star_Rating

Review_Cool

No_of_Reviews

Cross validation score - 4 attributes :[0.9136304 0.91119305 0.9084375 0.90661916
0.9152447]

Fans

Review_Star_Rating

Review_Cool

No_of_Reviews

Elite_Years

Cross validation score - 5 attributes :[0.9951253 0.9951878 0.9955625 0.99562473
0.99437465]

Fans

Review_Star_Rating

Review_Cool

No_of_Reviews

Elite_Years

Review_Funny

Cross validation score - 6 attributes :[0.99387538 0.99287545 0.9939375 0.99312457
0.99224952]

Fans

Review_Star_Rating

Review_Cool
No_of_Reviews
Elite_Years
Review_Funny
Stars
Cross validation score - 7 attributes :[0.99412537 0.99281295 0.9941875 0.99324958
0.99249953]

Fans
Review_Star_Rating
Review_Cool
No_of_Reviews
Elite_Years
Review_Funny
Stars
Review_Useful
Cross validation score - 8 attributes :[0.9935629 0.99175052 0.9935 0.991937
0.99087443]

Fans
Review_Star_Rating
Review_Cool
No_of_Reviews
Elite_Years
Review_Funny
Stars
Review_Useful
Funny
Cross validation score - 9 attributes :[0.99275045 0.99250047 0.99375 0.992062
0.99112445]

Fans
Review_Star_Rating
Review_Cool
No_of_Reviews
Elite_Years
Review_Funny
Stars
Review_Useful
Funny
Yelp_Months
Cross validation score - 10 attributes :[0.99281295 0.99262546 0.993875 0.99218701
0.99118695]

Fans
Review_Star_Rating
Review_Cool
No_of_Reviews
Elite_Years

Review_Funny

Stars

Review_Useful

Funny

Yelp_Months

Useful

Cross validation score - 11 attributes :[0.99256296 0.99187551 0.993375 0.99187449
0.99081193]

Fans

Review_Star_Rating

Review_Cool

No_of_Reviews

Elite_Years

Review_Funny

Stars

Review_Useful

Funny

Yelp_Months

Useful

Cool

Cross validation score - 12 attributes :[0.99281295 0.99218799 0.9935 0.99237452
0.99068692]

Business Rating : All states.cv

/Users/sampurna/anaconda/bin/python /Users/sampurna/Documents/mlcode/ProjectHome.py

[1. 1.5 2. 2.5 3. 3.5 4. 4.5 5.]

SVM classifier:

[1.02242763e+01 4.85658470e-01 2.60258571e+01 1.08129578e+01
3.41434715e+00 1.03947659e+02 1.03947659e+02 1.03947659e+02
6.22352202e+01 6.32663055e+01 3.26997541e+01 4.87940884e+01
6.13178590e+01 1.33301231e+01 4.61899841e+03 4.28648360e+00
2.05478475e+01 1.44784234e+01 6.60575219e+02 9.39517360e+00
5.87873452e+00 4.99510015e+00]

No. of checkins on weekday

Open/close

Cross validation score - 2 attributes :[0.62186978 0.62259414 0.62311558 0.62311558
0.62311558]

No. of checkins on weekday

Open/close

No. of reviews between 12 and 6 months

Cross validation score - 3 attributes :[0.62186978 0.62259414 0.62311558 0.62311558
0.62311558]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Cross validation score - 4 attributes :[0.62186978 0.62259414 0.62311558 0.62311558
0.62311558]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Cross validation score - 5 attributes :[0.62186978 0.62259414 0.62311558 0.62311558
0.62311558]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Cross validation score - 6 attributes :[0.62270451 0.62259414 0.62311558 0.62311558
0.62227806]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Cross validation score - 7 attributes :[0.65275459 0.65104603 0.65912898 0.6440536
0.66247906]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Cross validation score - 8 attributes :[0.64524207 0.64769874 0.6599665 0.64824121
0.66331658]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend

Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Cross validation score - 9 attributes :[0.64941569 0.64435146 0.65829146 0.63902848
0.65326633]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
Cross validation score - 10 attributes :[0.64774624 0.64769874 0.64824121 0.64489112
0.65829146]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Cross validation score - 11 attributes :[0.65358932 0.65020921 0.64991625 0.64656616
0.6599665]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Average review length
Cross validation score - 12 attributes :[0.64691152 0.64853556 0.64740369 0.64070352
0.66080402]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Average review length
Average review star rating
Cross validation score - 13 attributes :[0.81886477 0.77991632 0.80569514 0.82244556
0.82077052]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Average review length
Average review star rating
No. of reviews
Cross validation score - 14 attributes :[0.8163606 0.77573222 0.80067002 0.819933
0.81909548]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Average review length
Average review star rating
No. of reviews
Average user funny ratings

Cross validation score - 15 attributes :[0.80550918 0.77322176 0.79648241 0.81574539
0.81407035]

No. of checkins on weekday

Open/close

No. of reviews between 12 and 6 months

No of check-ins on weekend

Open on weekdays

Average review funny ratings

Average user star ratings

Average user useful ratings

Average review useful ratings

Average review cool ratings

No. of reviews until last 1 year

Average review length

Average review star rating

No. of reviews

Average user funny ratings

Open of week ends

Cross validation score - 16 attributes :[0.80300501 0.77154812 0.79229481 0.81072027
0.8040201]

No. of checkins on weekday

Open/close

No. of reviews between 12 and 6 months

No of check-ins on weekend

Open on weekdays

Average review funny ratings

Average user star ratings

Average user useful ratings

Average review useful ratings

Average review cool ratings

No. of reviews until last 1 year

Average review length

Average review star rating

No. of reviews

Average user funny ratings

Open of week ends

No. of reviews in last 6 months

Cross validation score - 17 attributes :[0.80133556 0.76569038 0.78475712 0.80067002
0.80067002]

No. of checkins on weekday

Open/close

No. of reviews between 12 and 6 months

No of check-ins on weekend

Open on weekdays

Average review funny ratings

Average user star ratings

Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Average review length
Average review star rating
No. of reviews
Average user funny ratings
Open of week ends
No. of reviews in last 6 months
No. of elite reviews
Cross validation score - 18 attributes :[0.80050083 0.75899582 0.78308208 0.79480737
0.7998325]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Average review length
Average review star rating
No. of reviews
Average user funny ratings
Open of week ends
No. of reviews in last 6 months
No. of elite reviews
Average user cool ratings
Cross validation score - 19 attributes :[0.79632721 0.75481172 0.77721943 0.79396985
0.79899497]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Average review length
Average review star rating

No. of reviews
Average user funny ratings
Open of week ends
No. of reviews in last 6 months
No. of elite reviews
Average user cool ratings
No_of_checkins
Cross validation score - 20 attributes :[0.78964942 0.75230126 0.77889447 0.78978224
0.79396985]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Average review length
Average review star rating
No. of reviews
Average user funny ratings
Open of week ends
No. of reviews in last 6 months
No. of elite reviews
Average user cool ratings
No_of_checkins
Distance
Cross validation score - 21 attributes :[0.77462437 0.73389121 0.74455611 0.75376884
0.74036851]

Logistic regression:
[1.02242763e+01 4.85658470e-01 2.60258571e+01 1.08129578e+01
3.41434715e+00 1.03947659e+02 1.03947659e+02 1.03947659e+02
6.22352202e+01 6.32663055e+01 3.26997541e+01 4.87940884e+01
6.13178590e+01 1.33301231e+01 4.61899841e+03 4.28648360e+00
2.05478475e+01 1.44784234e+01 6.60575219e+02 9.39517360e+00
5.87873452e+00 4.99510015e+00]

No. of checkins on weekday
Open/close
Cross validation score - 2 attributes :[0.62186978 0.62259414 0.62311558 0.62311558
0.62311558]

No. of checkins on weekday

Open/close
No. of reviews between 12 and 6 months
Cross validation score - 3 attributes :[0.62186978 0.62259414 0.62311558 0.62311558
0.62311558]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Cross validation score - 4 attributes :[0.62186978 0.62259414 0.62311558 0.62311558
0.62311558]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Cross validation score - 5 attributes :[0.62186978 0.62259414 0.62311558 0.62311558
0.62311558]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Cross validation score - 6 attributes :[0.62186978 0.62175732 0.62311558 0.62227806
0.62311558]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Cross validation score - 7 attributes :[0.639399 0.63012552 0.6440536 0.64237856
0.65577889]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Cross validation score - 8 attributes :[0.63856427 0.63430962 0.64489112 0.64740369
0.65661642]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Cross validation score - 9 attributes :[0.64190317 0.63682008 0.64740369 0.64740369
0.65159129]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
Cross validation score - 10 attributes :[0.64607679 0.64016736 0.64740369 0.65326633
0.66331658]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Cross validation score - 11 attributes :[0.64357262 0.63933054 0.64572864 0.64991625
0.6641541]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings

Average review cool ratings
No. of reviews until last 1 year
Average review length
Cross validation score - 12 attributes :[0.64607679 0.64016736 0.64824121 0.65494137
0.66080402]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Average review length
Average review star rating
Cross validation score - 13 attributes :[0.75709516 0.74142259 0.75293132 0.76046901
0.76549414]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Average review length
Average review star rating
No. of reviews
Cross validation score - 14 attributes :[0.75959933 0.74309623 0.75544389 0.75963149
0.7680067]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings

No. of reviews until last 1 year
Average review length
Average review star rating
No. of reviews
Average user funny ratings
Cross validation score - 15 attributes :[0.75792988 0.74560669 0.75460637 0.76130653
0.76884422]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Average review length
Average review star rating
No. of reviews
Average user funny ratings
Open of week ends
Cross validation score - 16 attributes :[0.75959933 0.74225941 0.75460637 0.76130653
0.77135678]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Average review length
Average review star rating
No. of reviews
Average user funny ratings
Open of week ends
No. of reviews in last 6 months
Cross validation score - 17 attributes :[0.76043406 0.74225941 0.75460637 0.76046901
0.77135678]

No. of checkins on weekday
Open/close

No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Average review length
Average review star rating
No. of reviews
Average user funny ratings
Open of week ends
No. of reviews in last 6 months
No. of elite reviews
Cross validation score - 18 attributes :[0.75959933 0.74142259 0.75293132 0.76046901
0.7721943]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Average review length
Average review star rating
No. of reviews
Average user funny ratings
Open of week ends
No. of reviews in last 6 months
No. of elite reviews
Average user cool ratings
Cross validation score - 19 attributes :[0.75959933 0.74058577 0.75460637 0.76130653
0.77135678]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings

Average review useful ratings
 Average review cool ratings
 No. of reviews until last 1 year
 Average review length
 Average review star rating
 No. of reviews
 Average user funny ratings
 Open of week ends
 No. of reviews in last 6 months
 No. of elite reviews
 Average user cool ratings
 No_of_checkins
 Cross validation score - 20 attributes :[0.75959933 0.74058577 0.75460637 0.76130653
 0.77135678]

No. of checkins on weekday
 Open/close
 No. of reviews between 12 and 6 months
 No of check-ins on weekend
 Open on weekdays
 Average review funny ratings
 Average user star ratings
 Average user useful ratings
 Average review useful ratings
 Average review cool ratings
 No. of reviews until last 1 year
 Average review length
 Average review star rating
 No. of reviews
 Average user funny ratings
 Open of week ends
 No. of reviews in last 6 months
 No. of elite reviews
 Average user cool ratings
 No_of_checkins
 Distance
 Cross validation score - 21 attributes :[0.76043406 0.74142259 0.75628141 0.75879397
 0.76716918]

Naive Bayes classifier:

[1.02242763e+01 4.85658470e-01 2.60258571e+01 1.08129578e+01
 3.41434715e+00 1.03947659e+02 1.03947659e+02 1.03947659e+02
 6.22352202e+01 6.32663055e+01 3.26997541e+01 4.87940884e+01
 6.13178590e+01 1.33301231e+01 4.61899841e+03 4.28648360e+00
 2.05478475e+01 1.44784234e+01 6.60575219e+02 9.39517360e+00
 5.87873452e+00 4.99510015e+00]

No. of checkins on weekday

Open/close

Cross validation score - 2 attributes :[0.62186978 0.62259414 0.59631491 0.62311558
0.62311558]

No. of checkins on weekday

Open/close

No. of reviews between 12 and 6 months

Cross validation score - 3 attributes :[0.40400668 0.42426778 0.41876047 0.44974874
0.50251256]

No. of checkins on weekday

Open/close

No. of reviews between 12 and 6 months

No of check-ins on weekend

Cross validation score - 4 attributes :[0.28964942 0.37740586 0.36683417 0.30150754
0.3559464]

No. of checkins on weekday

Open/close

No. of reviews between 12 and 6 months

No of check-ins on weekend

Open on weekdays

Cross validation score - 5 attributes :[0.11602671 0.18075314 0.15494137 0.11390285
0.14572864]

No. of checkins on weekday

Open/close

No. of reviews between 12 and 6 months

No of check-ins on weekend

Open on weekdays

Average review funny ratings

Cross validation score - 6 attributes :[0.139399 0.2 0.16666667 0.12144054
0.15661642]

No. of checkins on weekday

Open/close

No. of reviews between 12 and 6 months

No of check-ins on weekend

Open on weekdays

Average review funny ratings

Average user star ratings

Cross validation score - 7 attributes :[0.19782972 0.21841004 0.22110553 0.1959799
0.22278057]

No. of checkins on weekday

Open/close

No. of reviews between 12 and 6 months

No of check-ins on weekend

Open on weekdays

Average review funny ratings
Average user star ratings
Average user useful ratings
Cross validation score - 8 attributes :[0.19532554 0.21924686 0.22110553 0.19346734
0.22110553]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Cross validation score - 9 attributes :[0.19949917 0.22008368 0.22361809 0.19514238
0.22278057]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
Cross validation score - 10 attributes :[0.20116861 0.22677824 0.23283082 0.2001675
0.22864322]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Cross validation score - 11 attributes :[0.19866444 0.24853556 0.22194305 0.19932998
0.22613065]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend

Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Average review length
Cross validation score - 12 attributes :[0.20033389 0.25020921 0.22445561 0.19849246
0.22696817]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Average review length
Average review star rating
Cross validation score - 13 attributes :[0.28964942 0.34811715 0.38944724 0.30820771
0.319933]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Average review length
Average review star rating
No. of reviews
Cross validation score - 14 attributes :[0.30300501 0.35481172 0.38274707 0.31323283
0.32495812]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays

Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Average review length
Average review star rating
No. of reviews
Average user funny ratings
Cross validation score - 15 attributes :[0.30467446 0.35230126 0.38107203 0.31407035
0.32663317]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Average review length
Average review star rating
No. of reviews
Average user funny ratings
Open of week ends
Cross validation score - 16 attributes :[0.29883139 0.3539749 0.38190955 0.32077052
0.32579564]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Average review length
Average review star rating
No. of reviews
Average user funny ratings
Open of week ends
No. of reviews in last 6 months

Cross validation score - 17 attributes :[0.30300501 0.35230126 0.37018425 0.31825796 0.33249581]

No. of checkins on weekday

Open/close

No. of reviews between 12 and 6 months

No of check-ins on weekend

Open on weekdays

Average review funny ratings

Average user star ratings

Average user useful ratings

Average review useful ratings

Average review cool ratings

No. of reviews until last 1 year

Average review length

Average review star rating

No. of reviews

Average user funny ratings

Open of week ends

No. of reviews in last 6 months

No. of elite reviews

Cross validation score - 18 attributes :[0.30717863 0.36150628 0.35762144 0.32328308 0.33165829]

No. of checkins on weekday

Open/close

No. of reviews between 12 and 6 months

No of check-ins on weekend

Open on weekdays

Average review funny ratings

Average user star ratings

Average user useful ratings

Average review useful ratings

Average review cool ratings

No. of reviews until last 1 year

Average review length

Average review star rating

No. of reviews

Average user funny ratings

Open of week ends

No. of reviews in last 6 months

No. of elite reviews

Average user cool ratings

Cross validation score - 19 attributes :[0.31051753 0.3665272 0.35427136 0.32160804 0.32998325]

No. of checkins on weekday

Open/close

No. of reviews between 12 and 6 months

No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Average review length
Average review star rating
No. of reviews
Average user funny ratings
Open of week ends
No. of reviews in last 6 months
No. of elite reviews
Average user cool ratings
No_of_checkins
Cross validation score - 20 attributes :[0.3096828 0.36820084 0.35427136 0.32663317
0.33333333]

No. of checkins on weekday
Open/close
No. of reviews between 12 and 6 months
No of check-ins on weekend
Open on weekdays
Average review funny ratings
Average user star ratings
Average user useful ratings
Average review useful ratings
Average review cool ratings
No. of reviews until last 1 year
Average review length
Average review star rating
No. of reviews
Average user funny ratings
Open of week ends
No. of reviews in last 6 months
No. of elite reviews
Average user cool ratings
No_of_checkins
Distance
Cross validation score - 21 attributes :[0.3096828 0.36820084 0.35427136 0.32663317
0.33417085]

Process finished with exit code 0

.....

Business Status : All States.cv

/Users/sampurna/anaconda/bin/python /Users/sampurna/Documents/mlcode/ProjectHome.py

[0. 1.]

SVM classifier:

[0.90692873 11.49909943 30.13815206 14.20081262 37.58920806
209.48831068 209.48831068 209.48831068 43.49775086 50.96242781
136.76046916 167.75648939 40.19070577 2.98023625 29.22366766
1.68642849 2.86983351 2.2324036 7.41038285 1.34945315
0.85686611 1.90850084]

Open of week ends

No. of elite reviews

Cross validation score - 2 attributes :[0.8687291 0.86861925 0.86861925 0.86861925
0.86934673]

Open of week ends

No. of elite reviews

No. of reviews until last 1 year

Cross validation score - 3 attributes :[0.8687291 0.86861925 0.86861925 0.86861925
0.86934673]

Open of week ends

No. of elite reviews

No. of reviews until last 1 year

No. of reviews in last 6 months

Cross validation score - 4 attributes :[0.8687291 0.86861925 0.86861925 0.86861925
0.86934673]

Open of week ends

No. of elite reviews

No. of reviews until last 1 year

No. of reviews in last 6 months

Average review length

Cross validation score - 5 attributes :[0.8687291 0.86861925 0.86861925 0.86861925
0.86934673]

Open of week ends

No. of elite reviews

No. of reviews until last 1 year

No. of reviews in last 6 months

Average review length

Average user useful ratings

Cross validation score - 6 attributes :[0.8687291 0.86861925 0.86861925 0.86861925
0.86850921]

Open of week ends

No. of elite reviews

No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Cross validation score - 7 attributes :[0.8687291 0.86861925 0.86861925 0.86861925
0.86850921]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Cross validation score - 8 attributes :[0.8687291 0.86861925 0.86778243 0.86861925
0.86850921]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Cross validation score - 9 attributes :[0.86789298 0.86861925 0.86861925 0.86861925
0.86934673]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Cross validation score - 10 attributes :[0.86789298 0.86861925 0.86861925 0.86861925
0.86934673]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length

Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Cross validation score - 11 attributes :[0.86789298 0.86861925 0.86861925 0.86778243
0.86934673]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Cross validation score - 12 attributes :[0.86454849 0.86861925 0.86778243 0.86778243
0.86934673]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Average review star rating
Cross validation score - 13 attributes :[0.86538462 0.86778243 0.86861925 0.86861925
0.86934673]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings

Average review cool ratings
Average review funny ratings
Average user star ratings
Average review star rating
No of check-ins on weekend
Cross validation score - 14 attributes :[0.86538462 0.86861925 0.86694561 0.87447699
0.86850921]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Average review star rating
No of check-ins on weekend
No. of reviews between 12 and 6 months
Cross validation score - 15 attributes :[0.87792642 0.88451883 0.87029289 0.88953975
0.88023451]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Average review star rating
No of check-ins on weekend
No. of reviews between 12 and 6 months
Neighborhood count
Cross validation score - 16 attributes :[0.87123746 0.88284519 0.87196653 0.88033473
0.8760469]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months

Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Average review star rating
No of check-ins on weekend
No. of reviews between 12 and 6 months
Neighborhood count
No. of checkins on weekday
Cross validation score - 17 attributes :[0.87040134 0.88200837 0.87196653 0.88117155
0.87688442]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Average review star rating
No of check-ins on weekend
No. of reviews between 12 and 6 months
Neighborhood count
No. of checkins on weekday
No_of_checkins
Cross validation score - 18 attributes :[0.87040134 0.88033473 0.86945607 0.88117155
0.8760469]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings

Average review star rating
No of check-ins on weekend
No. of reviews between 12 and 6 months
Neighborhood count
No. of checkins on weekday
No_of_checkins
No. of reviews
Cross validation score - 19 attributes :[0.87123746 0.88033473 0.87029289 0.88117155
0.87688442]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Average review star rating
No of check-ins on weekend
No. of reviews between 12 and 6 months
Neighborhood count
No. of checkins on weekday
No_of_checkins
No. of reviews
Business_Rating
Cross validation score - 20 attributes :[0.86789298 0.87782427 0.87112971 0.88033473
0.87855946]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Average review star rating
No of check-ins on weekend
No. of reviews between 12 and 6 months
Neighborhood count

No. of checkins on weekday

No_of_checkins

No. of reviews

Business_Rating

Open on weekdays

Cross validation score - 21 attributes :[0.86789298 0.87782427 0.87112971 0.88033473
0.87855946]

Logistic regression:

[0.90692873 11.49909943 30.13815206 14.20081262 37.58920806
209.48831068 209.48831068 209.48831068 43.49775086 50.96242781
136.76046916 167.75648939 40.19070577 2.98023625 29.22366766
1.68642849 2.86983351 2.2324036 7.41038285 1.34945315
0.85686611 1.90850084]

Open of week ends

No. of elite reviews

Cross validation score - 2 attributes :[0.8687291 0.86861925 0.86861925 0.86861925
0.86934673]

Open of week ends

No. of elite reviews

No. of reviews until last 1 year

Cross validation score - 3 attributes :[0.8687291 0.86861925 0.86861925 0.86861925
0.86934673]

Open of week ends

No. of elite reviews

No. of reviews until last 1 year

No. of reviews in last 6 months

Cross validation score - 4 attributes :[0.86789298 0.86861925 0.86861925 0.86861925
0.86767169]

Open of week ends

No. of elite reviews

No. of reviews until last 1 year

No. of reviews in last 6 months

Average review length

Cross validation score - 5 attributes :[0.86789298 0.86861925 0.86861925 0.86861925
0.86767169]

Open of week ends

No. of elite reviews

No. of reviews until last 1 year

No. of reviews in last 6 months

Average review length

Average user useful ratings

Cross validation score - 6 attributes :[0.86789298 0.86861925 0.86778243 0.86861925 0.86767169]

Open of week ends

No. of elite reviews

No. of reviews until last 1 year

No. of reviews in last 6 months

Average review length

Average user useful ratings

Average user cool ratings

Cross validation score - 7 attributes :[0.86789298 0.86861925 0.86861925 0.86861925 0.86767169]

Open of week ends

No. of elite reviews

No. of reviews until last 1 year

No. of reviews in last 6 months

Average review length

Average user useful ratings

Average user cool ratings

Average user funny ratings

Cross validation score - 8 attributes :[0.86705686 0.86861925 0.86778243 0.86861925 0.86767169]

Open of week ends

No. of elite reviews

No. of reviews until last 1 year

No. of reviews in last 6 months

Average review length

Average user useful ratings

Average user cool ratings

Average user funny ratings

Average review useful ratings

Cross validation score - 9 attributes :[0.86622074 0.86861925 0.86778243 0.86861925 0.86767169]

Open of week ends

No. of elite reviews

No. of reviews until last 1 year

No. of reviews in last 6 months

Average review length

Average user useful ratings

Average user cool ratings

Average user funny ratings

Average review useful ratings

Average review cool ratings

Cross validation score - 10 attributes :[0.86705686 0.86861925 0.86778243 0.86861925 0.86767169]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Cross validation score - 11 attributes :[0.86622074 0.86861925 0.86778243 0.86861925
0.86767169]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Cross validation score - 12 attributes :[0.86622074 0.86861925 0.86778243 0.86861925
0.86767169]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Average review star rating
Cross validation score - 13 attributes :[0.86705686 0.86861925 0.86778243 0.86861925
0.86683417]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months

Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Average review star rating
No of check-ins on weekend
Cross validation score - 14 attributes :[0.8729097 0.86861925 0.86778243 0.86778243
0.86934673]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Average review star rating
No of check-ins on weekend
No. of reviews between 12 and 6 months
Cross validation score - 15 attributes :[0.89882943 0.90041841 0.87866109 0.88117155
0.88358459]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Average review star rating
No of check-ins on weekend
No. of reviews between 12 and 6 months
Neighborhood count
Cross validation score - 16 attributes :[0.89381271 0.90460251 0.87866109 0.88535565
0.88609715]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Average review star rating
No of check-ins on weekend
No. of reviews between 12 and 6 months
Neighborhood count
No. of checkins on weekday
Cross validation score - 17 attributes :[0.89381271 0.90460251 0.87866109 0.88535565
0.88609715]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Average review star rating
No of check-ins on weekend
No. of reviews between 12 and 6 months
Neighborhood count
No. of checkins on weekday
No_of_checkins
Cross validation score - 18 attributes :[0.89381271 0.90460251 0.87782427 0.88535565
0.88609715]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings

Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Average review star rating
No of check-ins on weekend
No. of reviews between 12 and 6 months
Neighborhood count
No. of checkins on weekday
No_of_checkins
No. of reviews
Cross validation score - 19 attributes :[0.89297659 0.90460251 0.87782427 0.88535565
0.88693467]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Average review star rating
No of check-ins on weekend
No. of reviews between 12 and 6 months
Neighborhood count
No. of checkins on weekday
No_of_checkins
No. of reviews
Business_Rating
Cross validation score - 20 attributes :[0.89297659 0.90460251 0.87782427 0.88619247
0.88693467]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings

Average user star ratings
Average review star rating
No of check-ins on weekend
No. of reviews between 12 and 6 months
Neighborhood count
No. of checkins on weekday
No_of_checkins
No. of reviews
Business_Rating
Open on weekdays
Cross validation score - 21 attributes :[0.89297659 0.90460251 0.87782427 0.88619247
0.88693467]

Naive Bayes classifier:
[0.90692873 11.49909943 30.13815206 14.20081262 37.58920806
209.48831068 209.48831068 209.48831068 43.49775086 50.96242781
136.76046916 167.75648939 40.19070577 2.98023625 29.22366766
1.68642849 2.86983351 2.2324036 7.41038285 1.34945315
0.85686611 1.90850084]

Open of week ends
No. of elite reviews
Cross validation score - 2 attributes :[0.8687291 0.86861925 0.86861925 0.86861925
0.86934673]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
Cross validation score - 3 attributes :[0.35284281 0.4292887 0.35313808 0.34644351
0.3718593]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Cross validation score - 4 attributes :[0.43060201 0.49037657 0.48619247 0.45774059
0.49832496]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Cross validation score - 5 attributes :[0.43060201 0.49205021 0.48619247 0.45857741 0.5
]

Open of week ends
No. of elite reviews

No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Cross validation score - 6 attributes :[0.43812709 0.49121339 0.48535565 0.45857741 0.5
]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Cross validation score - 7 attributes :[0.44481605 0.49121339 0.48619247 0.46276151
0.50335008]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Cross validation score - 8 attributes :[0.44481605 0.49205021 0.48535565 0.46359833
0.50753769]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Cross validation score - 9 attributes :[0.44481605 0.49205021 0.48702929 0.46359833
0.50837521]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings

Average review cool ratings

Cross validation score - 10 attributes :[0.44816054 0.49205021 0.48702929 0.46945607
0.51005025]

Open of week ends

No. of elite reviews

No. of reviews until last 1 year

No. of reviews in last 6 months

Average review length

Average user useful ratings

Average user cool ratings

Average user funny ratings

Average review useful ratings

Average review cool ratings

Average review funny ratings

Cross validation score - 11 attributes :[0.44648829 0.49372385 0.49121339 0.46861925
0.51256281]

Open of week ends

No. of elite reviews

No. of reviews until last 1 year

No. of reviews in last 6 months

Average review length

Average user useful ratings

Average user cool ratings

Average user funny ratings

Average review useful ratings

Average review cool ratings

Average review funny ratings

Average user star ratings

Cross validation score - 12 attributes :[0.44565217 0.50041841 0.50125523 0.48368201
0.54438861]

Open of week ends

No. of elite reviews

No. of reviews until last 1 year

No. of reviews in last 6 months

Average review length

Average user useful ratings

Average user cool ratings

Average user funny ratings

Average review useful ratings

Average review cool ratings

Average review funny ratings

Average user star ratings

Average review star rating

Cross validation score - 13 attributes :[0.44732441 0.50460251 0.50376569 0.48535565
0.55443886]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Average review star rating
No of check-ins on weekend
Cross validation score - 14 attributes :[0.47575251 0.54895397 0.53556485 0.51213389
0.57035176]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Average review star rating
No of check-ins on weekend
No. of reviews between 12 and 6 months
Cross validation score - 15 attributes :[0.46655518 0.53807531 0.54895397 0.49874477
0.56532663]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Average review star rating
No of check-ins on weekend

No. of reviews between 12 and 6 months
Neighborhood count
Cross validation score - 16 attributes :[0.46822742 0.53723849 0.54979079 0.49874477
0.56448911]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Average review star rating
No of check-ins on weekend
No. of reviews between 12 and 6 months
Neighborhood count
No. of checkins on weekday
Cross validation score - 17 attributes :[0.48494983 0.55313808 0.5623431 0.51380753
0.57035176]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Average review star rating
No of check-ins on weekend
No. of reviews between 12 and 6 months
Neighborhood count
No. of checkins on weekday
No_of_checkins
Cross validation score - 18 attributes :[0.4916388 0.56401674 0.56820084 0.51966527
0.57118928]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year

No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Average review star rating
No of check-ins on weekend
No. of reviews between 12 and 6 months
Neighborhood count
No. of checkins on weekday
No_of_checkins
No. of reviews
Cross validation score - 19 attributes :[0.48160535 0.55732218 0.55732218 0.51213389
0.56197655]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings
Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Average review star rating
No of check-ins on weekend
No. of reviews between 12 and 6 months
Neighborhood count
No. of checkins on weekday
No_of_checkins
No. of reviews
Business_Rating
Cross validation score - 20 attributes :[0.47658863 0.55732218 0.558159 0.51129707
0.56030151]

Open of week ends
No. of elite reviews
No. of reviews until last 1 year
No. of reviews in last 6 months
Average review length
Average user useful ratings
Average user cool ratings

Average user funny ratings
Average review useful ratings
Average review cool ratings
Average review funny ratings
Average user star ratings
Average review star rating
No of check-ins on weekend
No. of reviews between 12 and 6 months
Neighborhood count
No. of checkins on weekday
No_of_checkins
No. of reviews
Business_Rating
Open on weekdays
Cross validation score - 21 attributes :[0.32692308 0.43933054 0.49288703 0.33556485
0.41624791]