

NASDAQ missing dates

NYC flights EDA

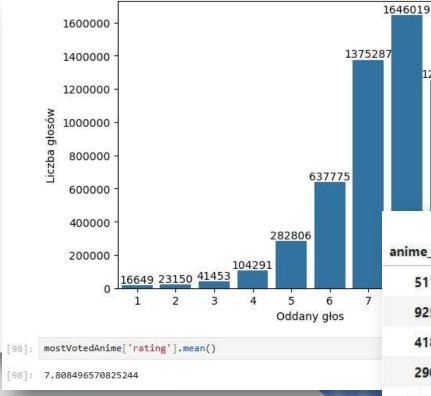
London houses prices

Anime ALS recommendation and statistical analysis

[58]: mostVotedAnime = rating[rating['rating']>-1]
[59]: mostVotedAnime.groupby('user_id').count().sort_values('anime_id', ascending=False)

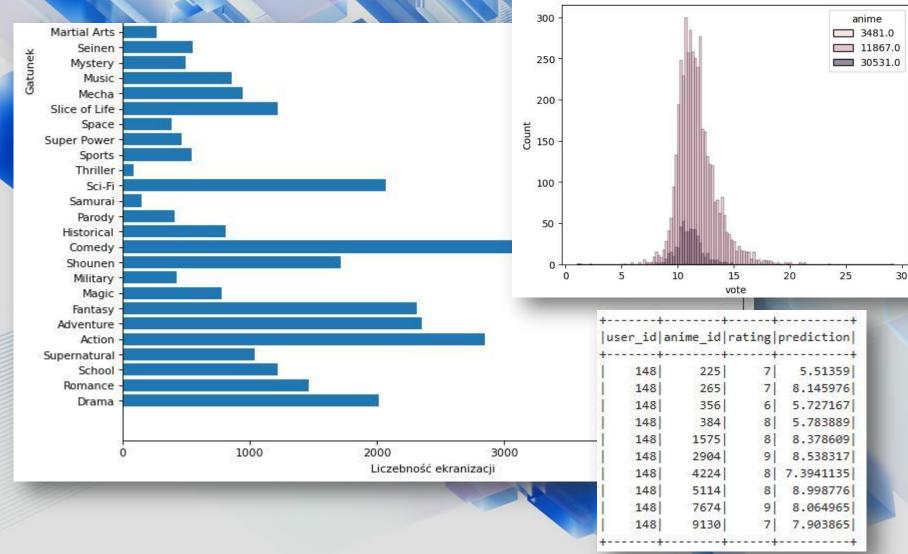
[59]: anime_id rating

user_id		
42635	3747	3747
53698	2905	2905
57620	2689	2689
59643	2632	2632
51693	2621	2621
•••		***
66747	1	1
35463	1	1
55557	1	1
55563	1	1
22208	1	1

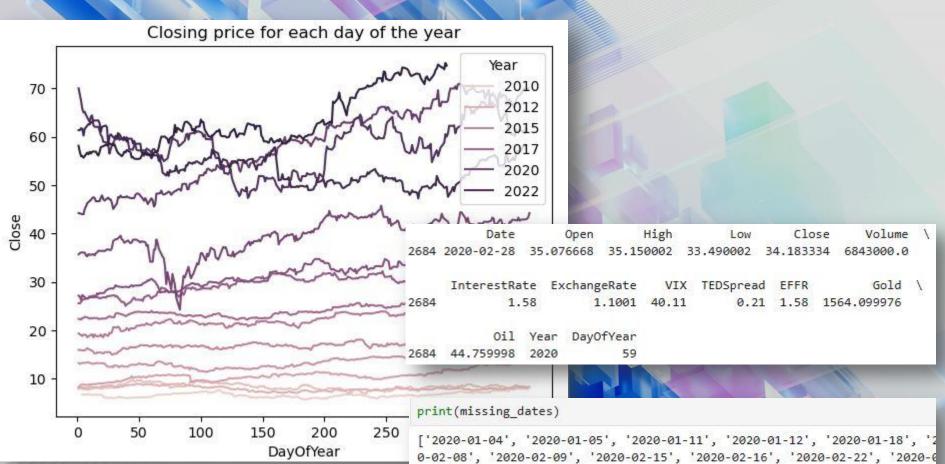


	1254094			
		955715	X	
	anime_id	counts	ratingSum	ratingMean
	5114	21494	200383	9.322741
7	9253	17151	158841	9.261326
	4181	15518	142227	9.165292
	2904	21124	191380	9.059837
	30276	11323	101224	8.939680

Anime ALS recommendation and statistical analysis

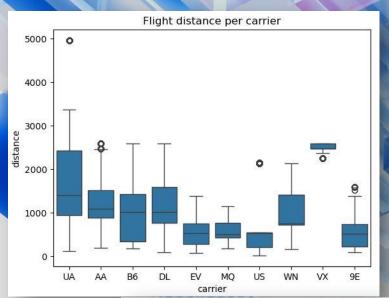


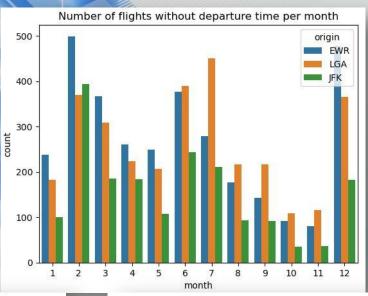
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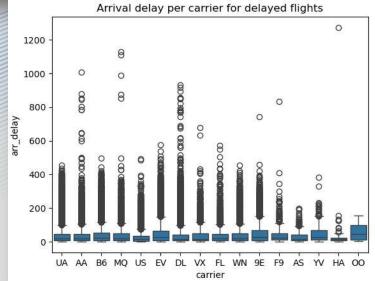


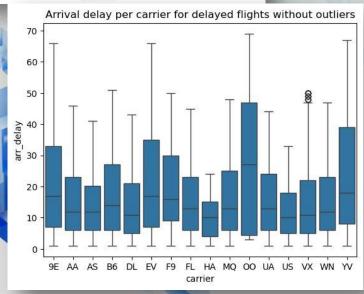
['2020-01-04', '2020-01-05', '2020-01-11', '2020-01-12', '2020-01-18', '2
0-02-08', '2020-02-09', '2020-02-15', '2020-02-16', '2020-02-22', '2020-0
14', '2020-03-15', '2020-03-21', '2020-03-22', '2020-03-28', '2020-03-29'
'2020-04-18', '2020-04-19', '2020-04-25', '2020-04-26', '2020-05-02', '20
-05-17', '2020-05-23', '2020-05-24', '2020-05-30', '2020-05-31', '2020-06
0', '2020-06-21', '2020-06-27', '2020-06-28', '2020-07-04', '2020-07-05',
'2020-07-25', '2020-07-26', '2020-08-02', '2020-08-08', '2020-08-09', '20
-08-29', '2020-08-30', '2020-09-05', '2020-09-06', '2020-09-12', '2020-09

NYC flights EDA

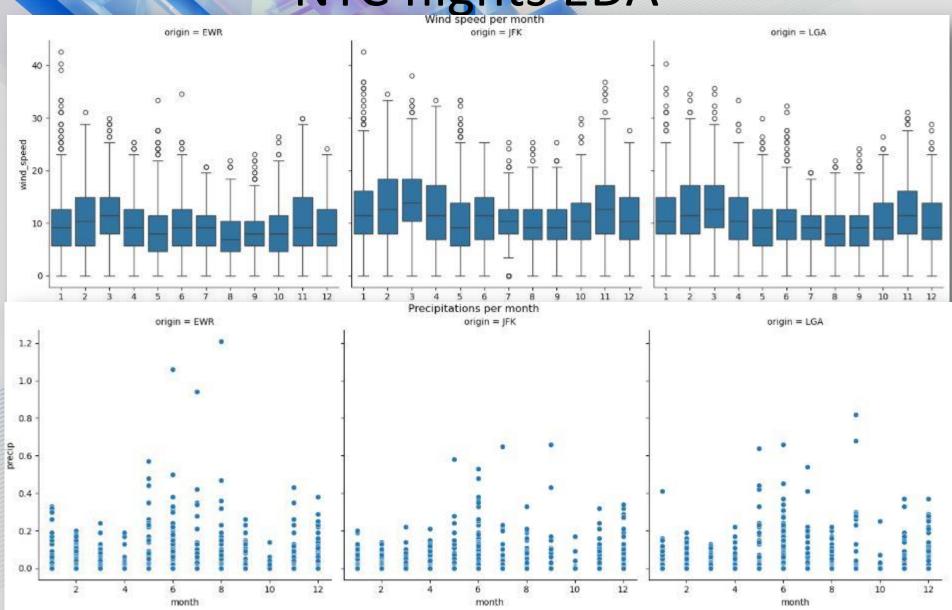




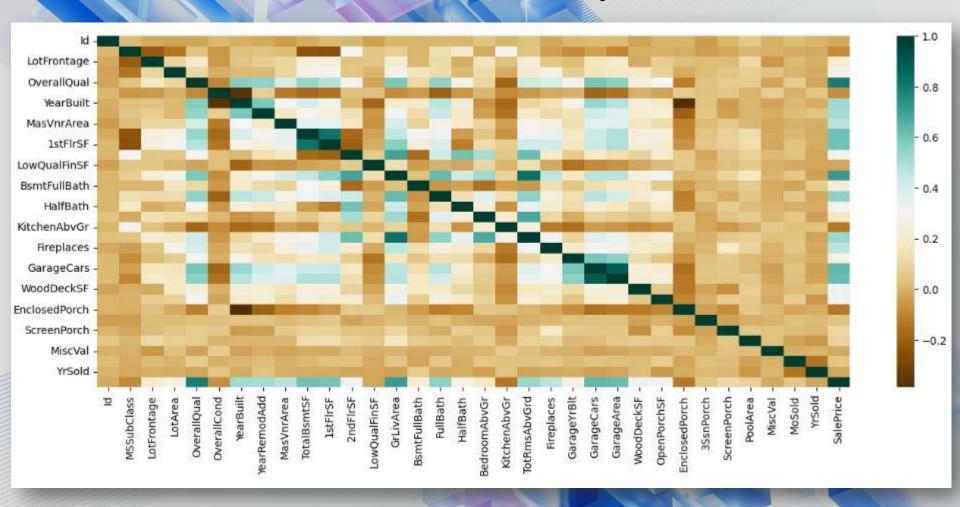




NYC flights EDA Wind speed per month origin = JFK



London houses prices



London houses prices

```
param grid gbr={
    "learning rate":[0.05, 0.1, 0.2],
    "n estimators" : [40, 100, 250],
    "max depth" : [3, 5, 8]
                                                                         lasso pred = lasso.predict(X valid num)
                                                                         print(root mean squared error(lasso pred, y valid))
gbr2 = GradientBoostingRegressor(criterion='squared error', random stat
                                                                          39254.88822704823
CV gbr = GridSearchCV(estimator=gbr2, param grid=param grid gbr, cv=5)
                                                                         importance_df = pd.DataFrame({
CV gbr.fit(X train best num, y train)
                                                                              'Feature': X train num.columns,
                                                                              'Importance': np.abs(lasso.coef )
                GridSearchCV
                                                                         }).sort values(by='Importance', ascending=False)
 ▶ best estimator : GradientBoostingRegressor
                                                                         importance df.head(10)

    GradientBoostingRegressor

                                                                                             Importance
                                                                                    Feature
                                                                               KitchenAbvGr 17878.939810
                                                                         22
                                                                                GarageCars 16658.577801
CV gbr.best params
                                                                                OverallQual 16086.699326
{'learning rate': 0.1, 'max depth': 5, 'n estimators': 40}
                                                                                BsmtFullBath 14969.486666
CV_gbr.best_score_
                                                                             BedroomAbvGr 11215.729890
0.8250241125102503
                                                                             TotRmsAbvGrd
                                                                                             5526.306931
                                                                           5
                                                                                OverallCond
                                                                                             5370.636825
```