Cas Kaggle
Brewer's Friend Beer Recipes

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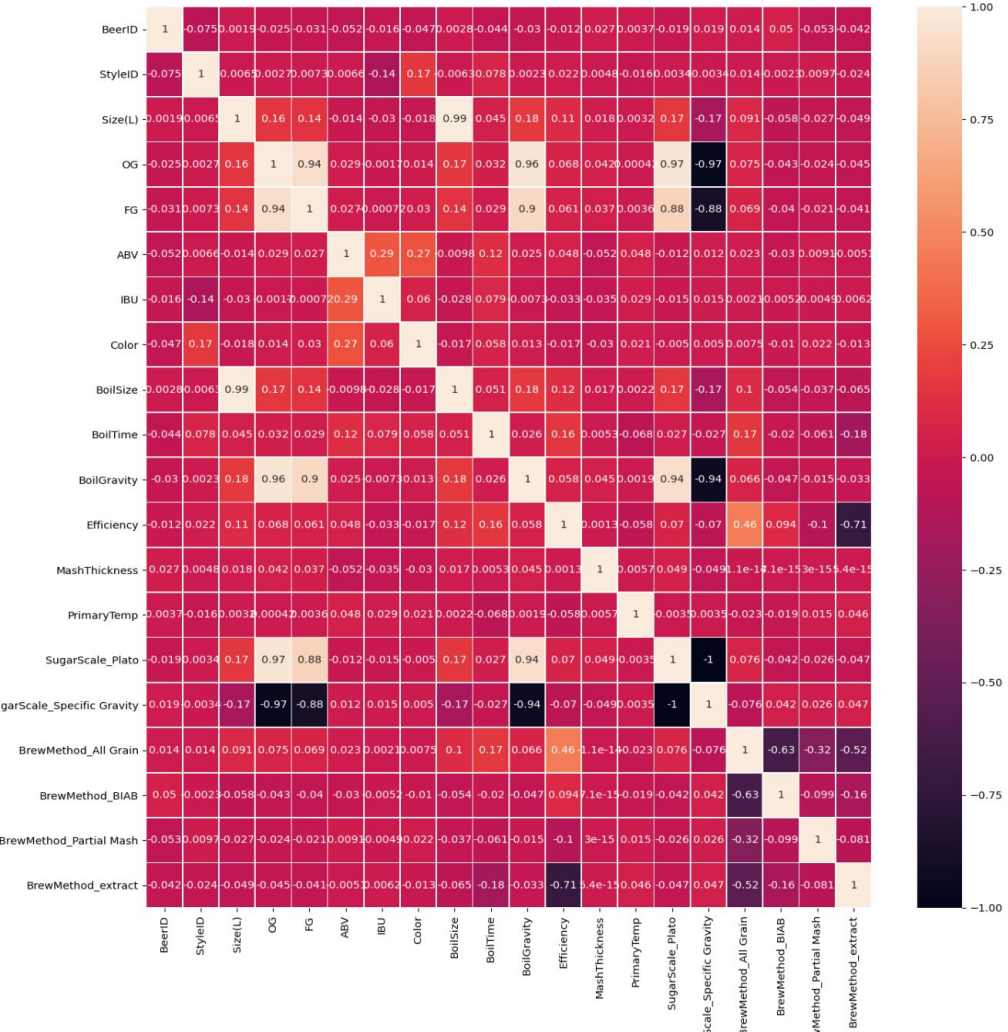
Aprenentatge Computacional
MatCAD

https://github.com/clarasoan/BeerRecipes



BeerID	int64
Name	object
URL	object
Style	object
StyleID	int64
Size(L)	float64
OG	float64
FG	float64
ABV	float64
IBU	float64
Color	float64
BoilSize	float64
BoilTime	int64
BoilGravity	float64
Efficiency	float64
MashThickness	float64
SugarScale	object
BrewMethod	object
PitchRate	float64
PrimaryTemp	float64
PrimingMethod	object
PrimingAmount	object
UserId	float64

dtype: object

EXPLORATORY DATA ANALYSIS

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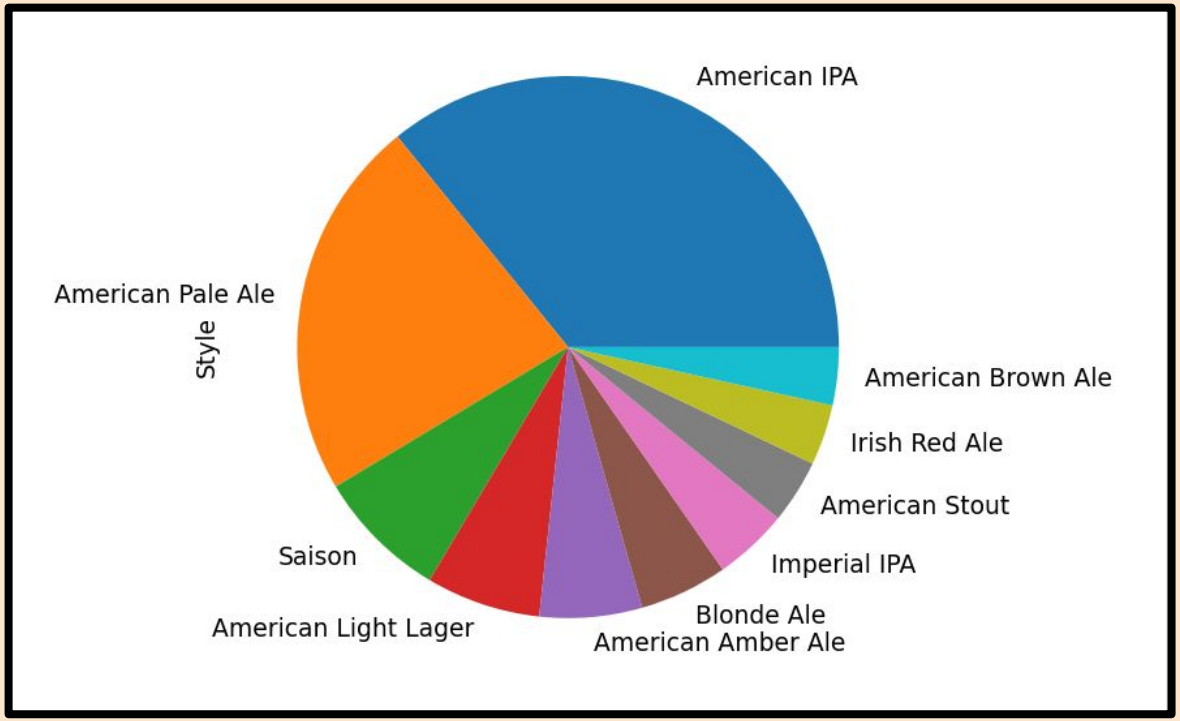
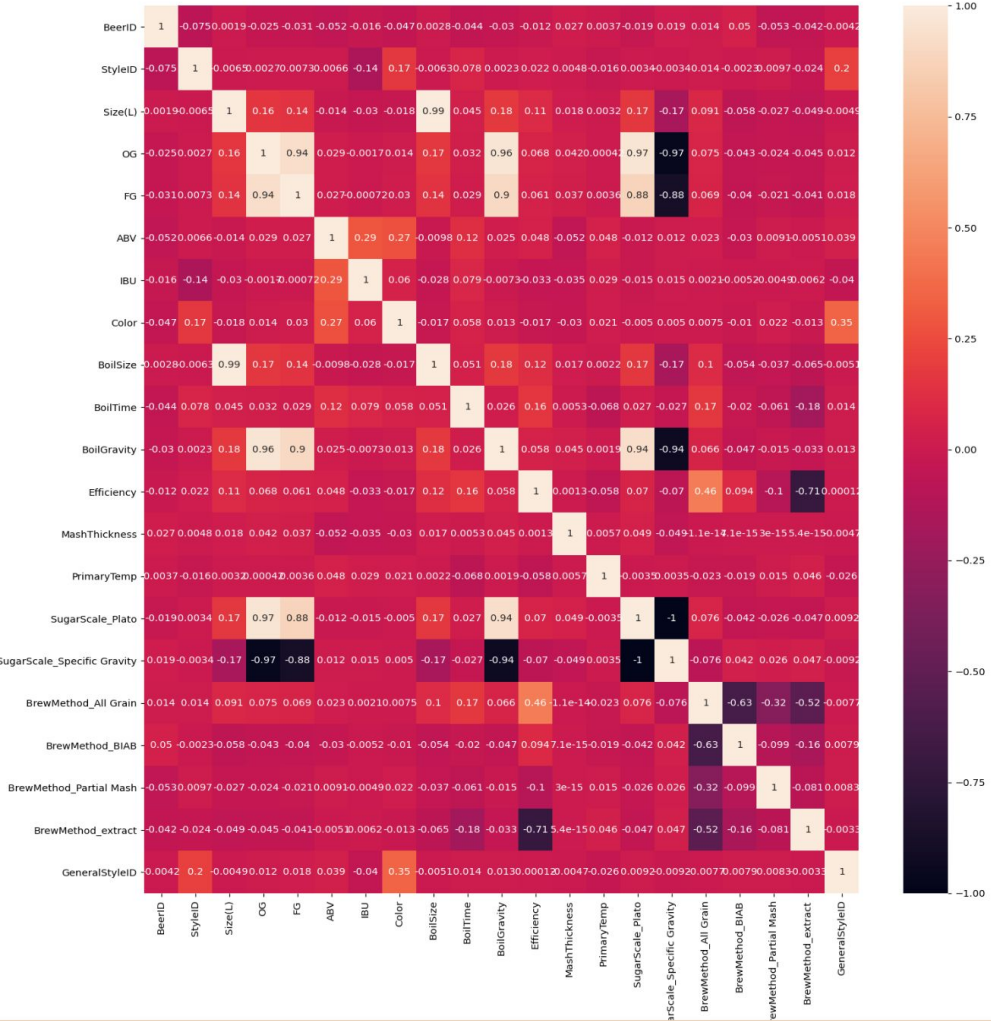


GENERALSTYLE

- Ale
- IPA
- Pale Ale
- Lager
- Stout
- Bitter
- Cider
- Porter
- Other

PREPROCESSING



PREPROCESSING

Atribut objectiu: ‘Style’

	Original	Escalat
LogisticRegression	0.214175	0.396467
SGDClassifier	0.046233	0.273878
KNeighborsClassifier	0.176741	0.469573
DecisionTreeClassifier	0.470385	0.468964
GaussianNB	0.230217	0.251946
RandomForest	0.541461	0.540378

Atribut objectiu: ‘GeneralStyle’

	Original	Escalat
LogisticRegression	0.558857	0.553916
SGDClassifier	0.339538	0.409734
KNeighborsClassifier	0.449198	0.698166
DecisionTreeClassifier	0.993299	0.992419
GaussianNB	0.376701	0.378055
RandomForest	0.896703	0.880661

MODEL SELECTION

Logistic Regression

	Original	Escalat
C	2.195254	2.179533
penalty	l1	l1

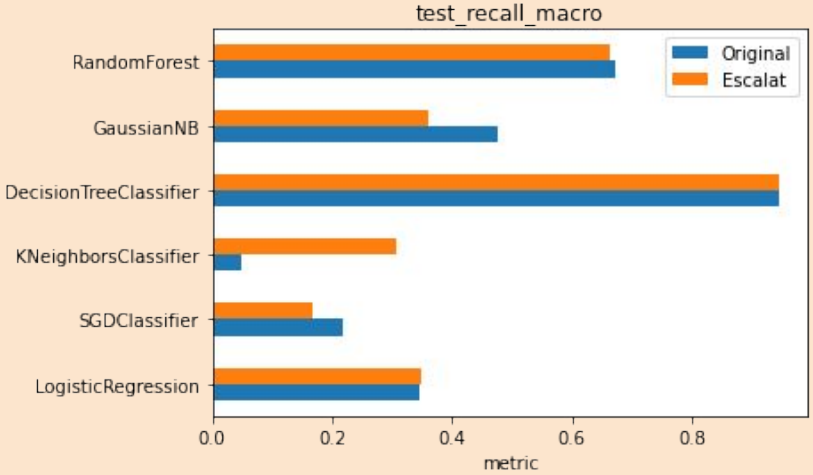
Random Forest Classifier

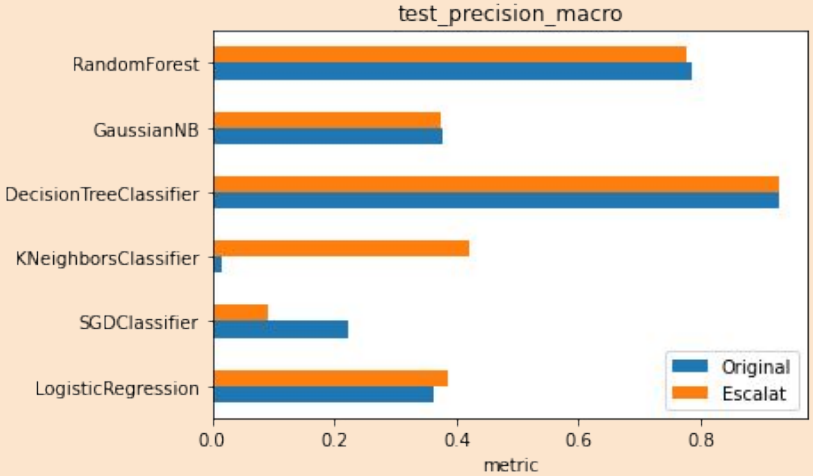
	Original	Escalat
n_estimators	100	50
min_samples_leaf	1	2

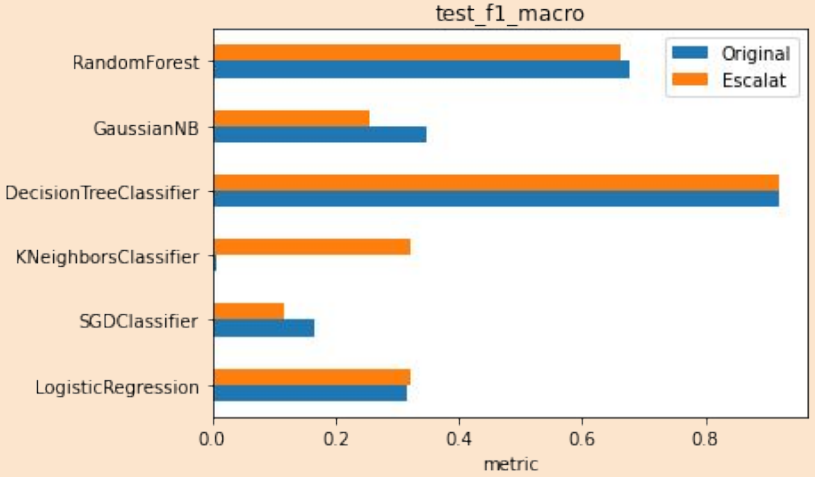
Decision Tree Classifier

	Original	Escalat
criterion	entropy	entropy

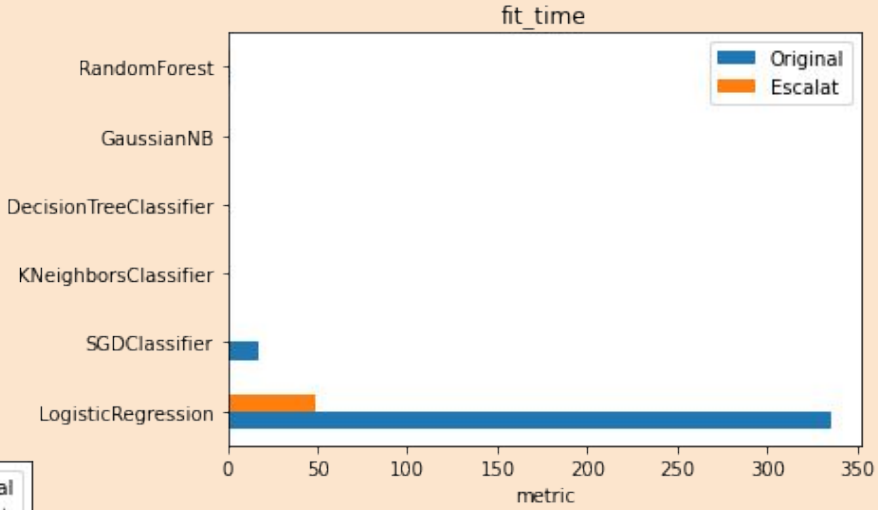
HYPER PARAMETER SEARCH

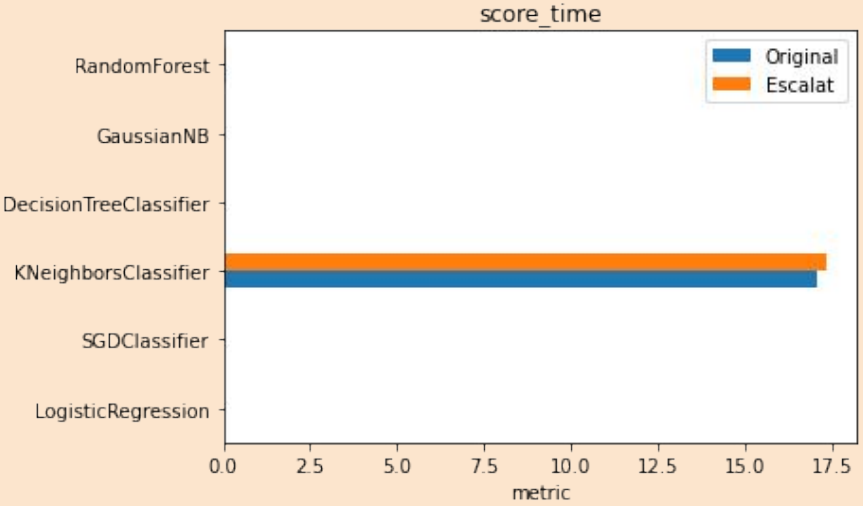






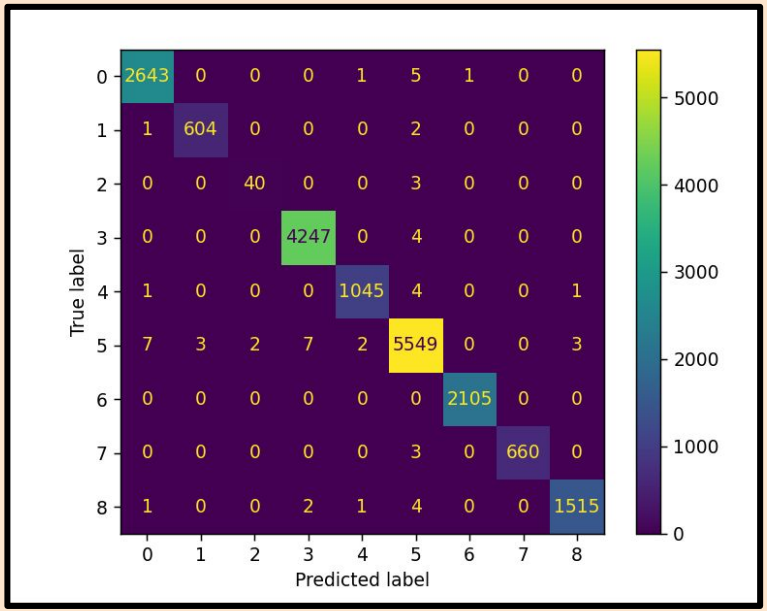
CROSS-VALIDATION



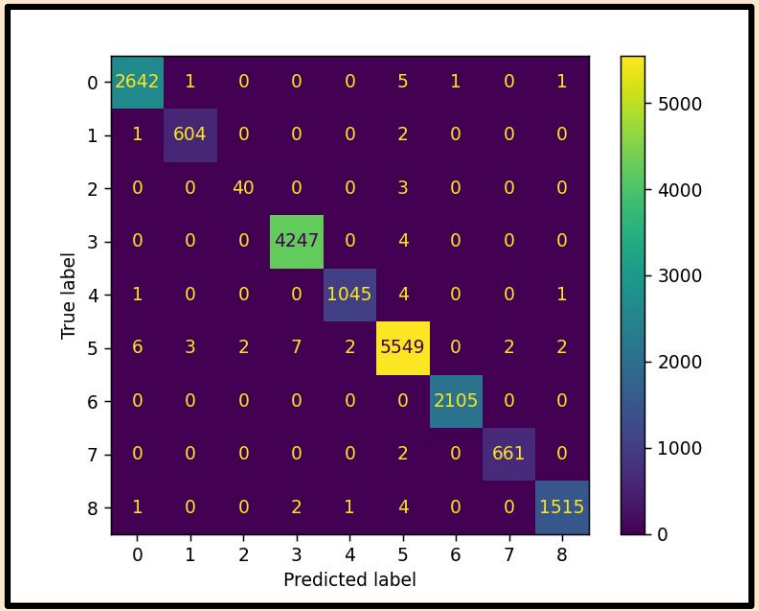


CROSS-VALIDATION

Dataset original



Dataset escalat



CROSS-VALIDATION