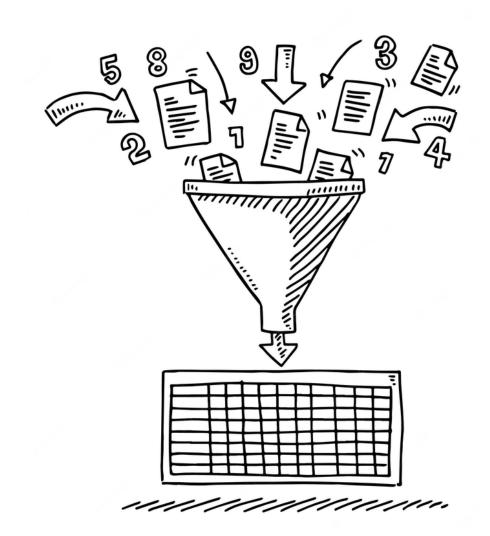


RETROSPECTIVA

- SPRINT 1
- SPRINT 2

SPRINT 3

- FEATURES
- MÉTRICAS
- MODELO CANDIDATO



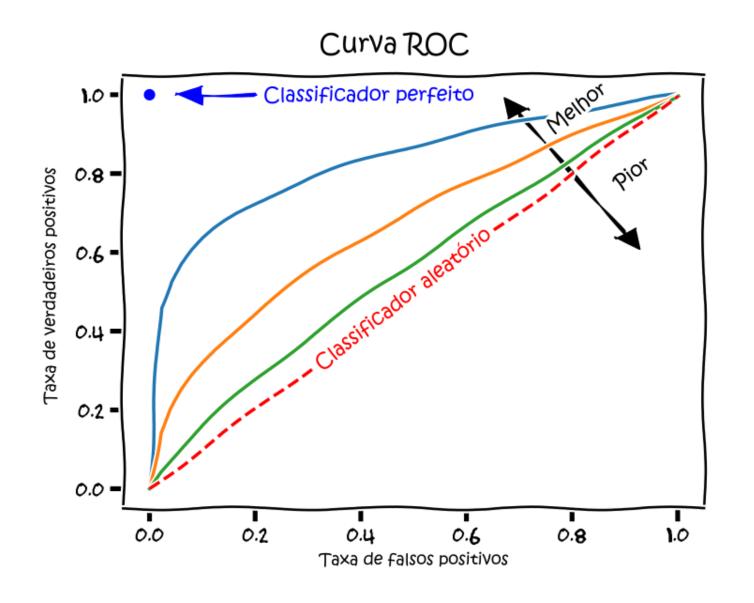
SELEÇÃO DE FEATURES

- 'IDADE_DIAGNOSTICO'
- 'PRIMEIRO_IMC'
- 'ULTIMA_INFORMACAO_PACIENTE'
- 'TEMPO_SEGUIMENTO'
- 'RECIDIVA_LOCAL'
- 'RECIDIVA_DISTANCIA'
- 'RECIDIVA_REGIONAL'
- 'SUBTIPO_TUMORAL'
- 'GRAU_HISTOLOGICO'

MÉTRICAS

CURVA ROC E AUC

- ROC → AVALIAÇÃO DA
 SENSIBILIDADE DO MODELO
- AUC → INDICA A CAPACIDADE DE
 DISTINGUIR POSITIVAS E NEGATIVAS



$$\frac{True\ Positive}{True\ positive + False\ Positive}$$

Recall =
$$\frac{True\ Positive}{True\ positive + False\ Negative}$$

F1 Score =
$$2 * \frac{Precision * Recall}{Precision + Recall}$$

MODELO CANDIDATO

- MODELO NÃO SUPERVISIONADO →
 SUPERVISIONADO
- ADABOOST CLASSIFIER

OUTROS MODELOS

• 28 MODELOS TESTADOS

	Accuracy	Balanced Accuracy	ROC AUC	F1 Score	Time Taken	Precision	Recalls
Model							
AdaBoostClassifier	0.68	0.67	0.67	0.68	0.59	0.66	0.63
ExtraTreesClassifier	0.67	0.67	0.67	0.67	0.50	0.66	0.62
RandomForestClassifier	0.67	0.66	0.66	0.67	1.70	0.65	0.60
RidgeClassifier	0.66	0.66	0.66	0.66	0.04	0.66	0.60
LinearSVC	0.66	0.66	0.66	0.66	0.52	0.47	0.00
RidgeClassifierCV	0.66	0.66	0.66	0.66	0.10	0.59	0.46
LinearDiscriminantAnalysis	0.66	0.66	0.66	0.66	0.16	0.00	0.00
LogisticRegression	0.66	0.66	0.66	0.66	0.09	0.65	0.62
CalibratedClassifierCV	0.66	0.66	0.66	0.66	1.36	0.65	0.59
SVC	0.66	0.66	0.66	0.66	0.81	0.65	0.60
LGBMClassifier	0.66	0.65	0.65	0.66	7.67	0.52	0.38
XGBClassifier	0.65	0.65	0.65	0.65	4.95	0.62	0.65
NearestCentroid	0.64	0.64	0.64	0.64	0.07	0.46	0.59
BaggingClassifier	0.64	0.64	0.64	0.64	0.37	0.47	0.99
BernoulliNB	0.64	0.64	0.64	0.64	0.02	0.64	0.52
NuSVC	0.62	0.62	0.62	0.62	0.80	0.55	0.47
DecisionTreeClassifier	0.61	0.61	0.61	0.61	0.08	0.47	0.00
KNeighborsClassifier	0.60	0.60	0.60	0.60	0.07	0.47	0.96
SGDClassifier	0.60	0.60	0.60	0.60	0.15	0.39	0.28
Perceptron	0.58	0.58	0.58	0.58	0.08	0.58	0.59
Label Spreading	0.57	0.56	0.56	0.56	0.32	0.46	0.46
LabelPropagation	0.57	0.56	0.56	0.56	0.28	0.00	0.00
PassiveAggressiveClassifier	0.55	0.55	0.55	0.54	0.03	0.00	0.00
ExtraTreeClassifier	0.54	0.54	0.54	0.54	0.02	0.54	0.59
GaussianNB	0.47	0.50	0.50	0.31	0.03	0.57	0.72
DummyClassifier	0.53	0.50	0.50	0.37	0.02	0.00	0.00
QuadraticDiscriminantAnalysis	0.48	0.50	0.50	0.44	0.15	0.46	0.94















