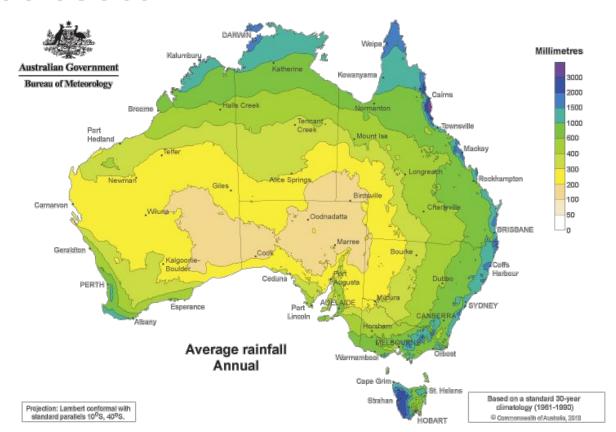
Models

Martí Caixal Joaniquet 1563587 Ricard López Olivares 1571136 Jairo Villarroel Rodriguez 1571069



Base de dades

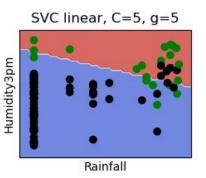


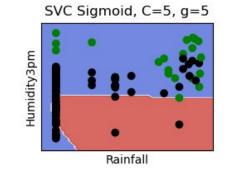
Apartat B

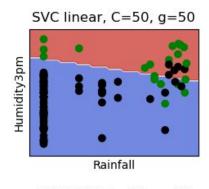
Comparant models

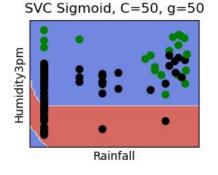


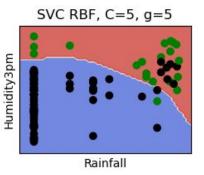


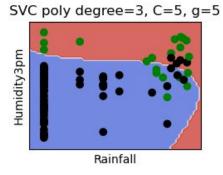


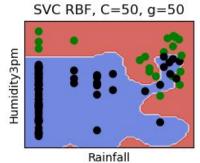


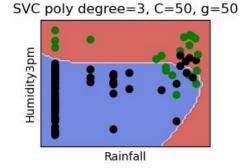




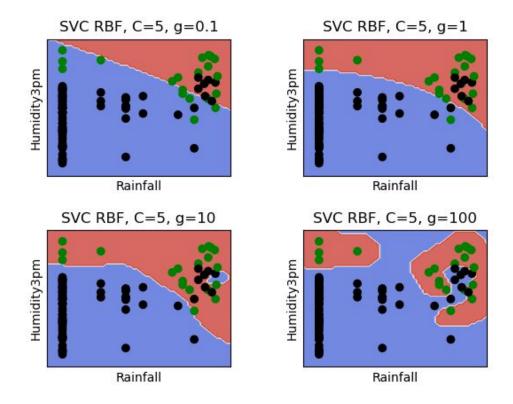




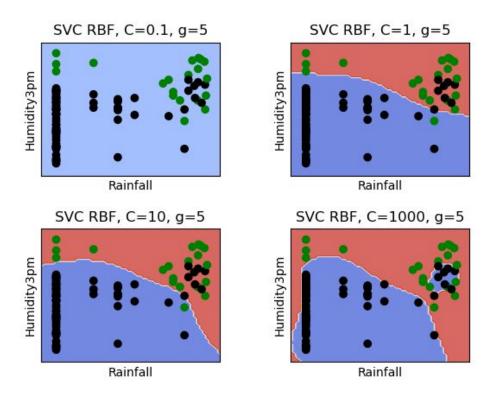




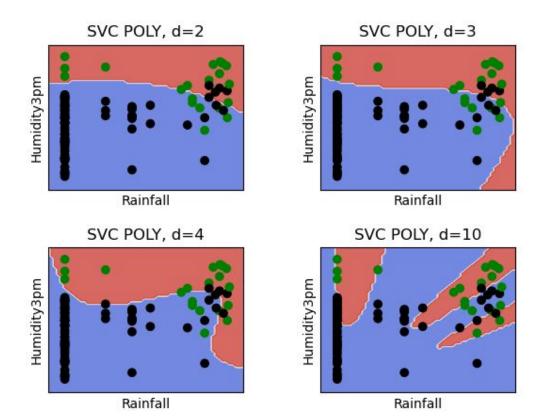
Gamma



C

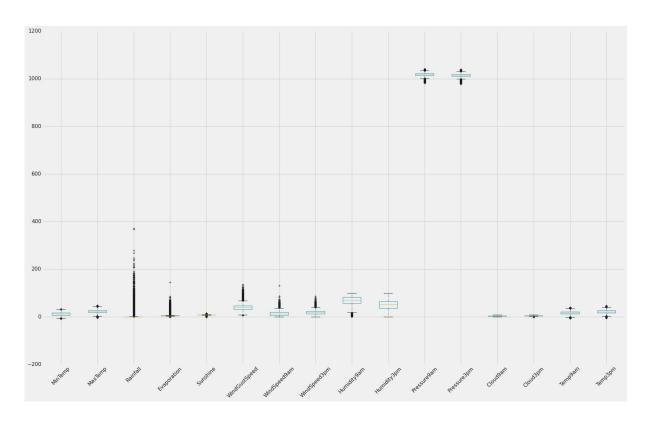


Graus del polinomi



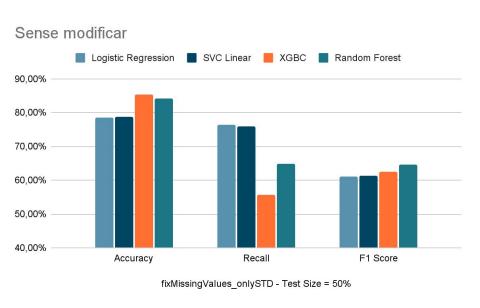
Apatat A

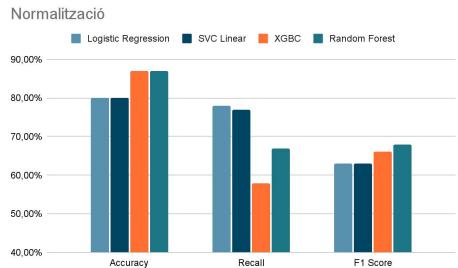
Reescalar dades





Normalització





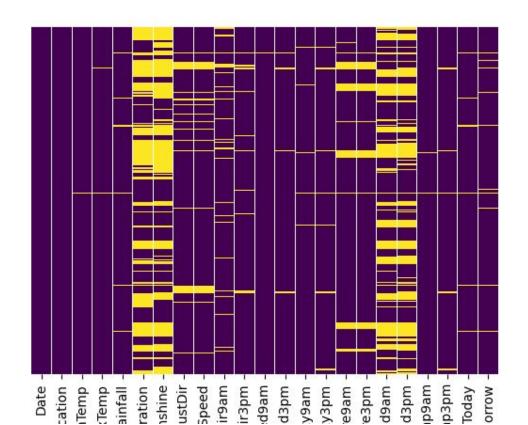
Skew

Sense modificar



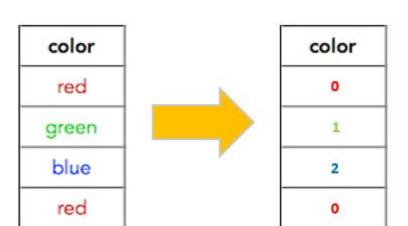
fixMissingValues_onlySTD - Test Size = 50%

Valors nuls



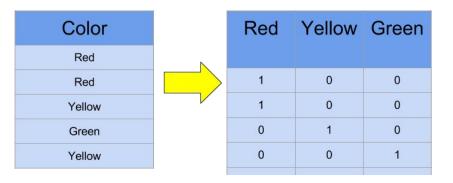
Codificació de dades categòriques





Label Encoder

OneHot Encoder



First Component Analysis

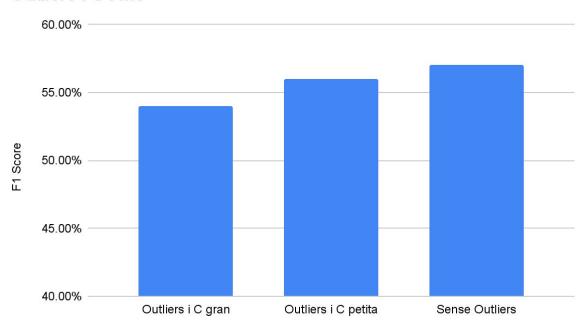


Anomalies

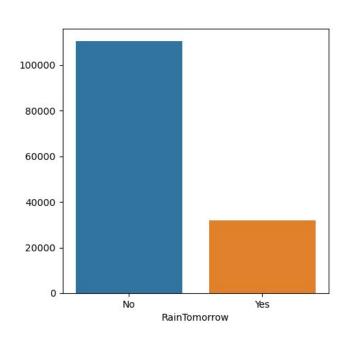


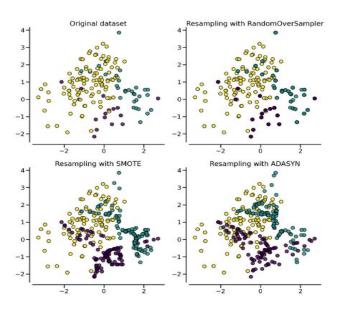
Anomalies (SVM polinomial)

Outliers i SVMs



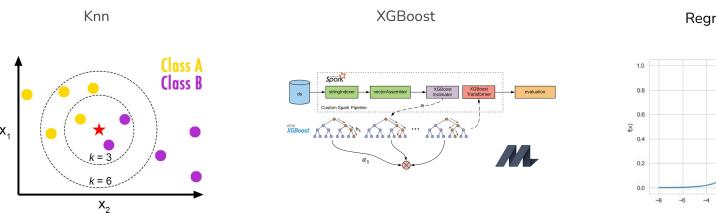
Classes balancejades



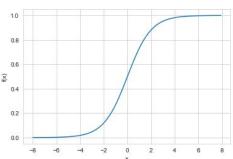




Models aplicats

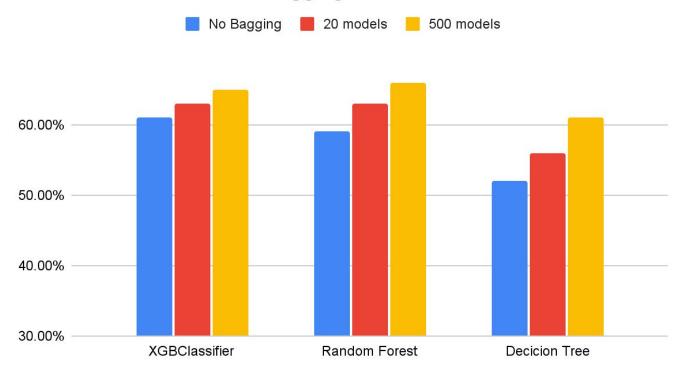


Regresio Logistic



Ensambles

F1 Score - Normal V.S. Bagging

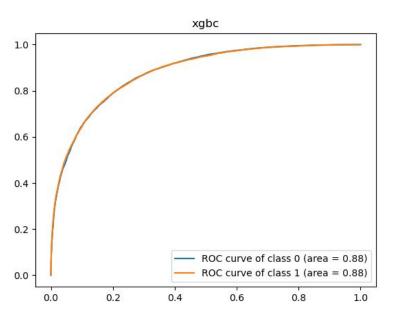


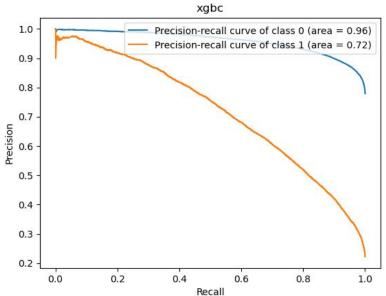
Analisis de mètriques

RAIN?	Actual YES	Actual NO	Total
Predicted YES	TP = 5	FP = 0	5
Predicted NO	FN = 25	TN = 270	295
Total	30	270	300

Accuracy	92%
Precision	100%
Recall	16%
F1 Score	27%

ROC i PR curves



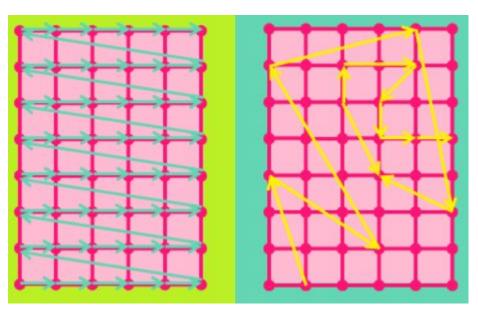


Classification Report

```
XGBC
Accuracy:
          0.8103602364911315
Precision: 0.5566428302596914
Recall: 0.6911214953271028
f1 score: 0.616635397123202
Classification report:
              precision
                           recall f1-score
                                              support
                  0.91
                            0.84
                                      0.87
                                               22672
           Θ
                            0.69
                  0.56
                                      0.62
                                                6420
                                      0.81
                                               29092
    accuracy
                  0.73
                            0.77
                                      0.75
                                               29092
   macro avg
weighted avg
                  0.83
                            0.81
                                      0.82
                                               29092
```



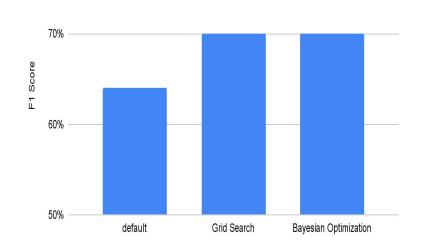
Cerca de l'hiperparàmetre



GRID BAYESIAN







Conclusió

