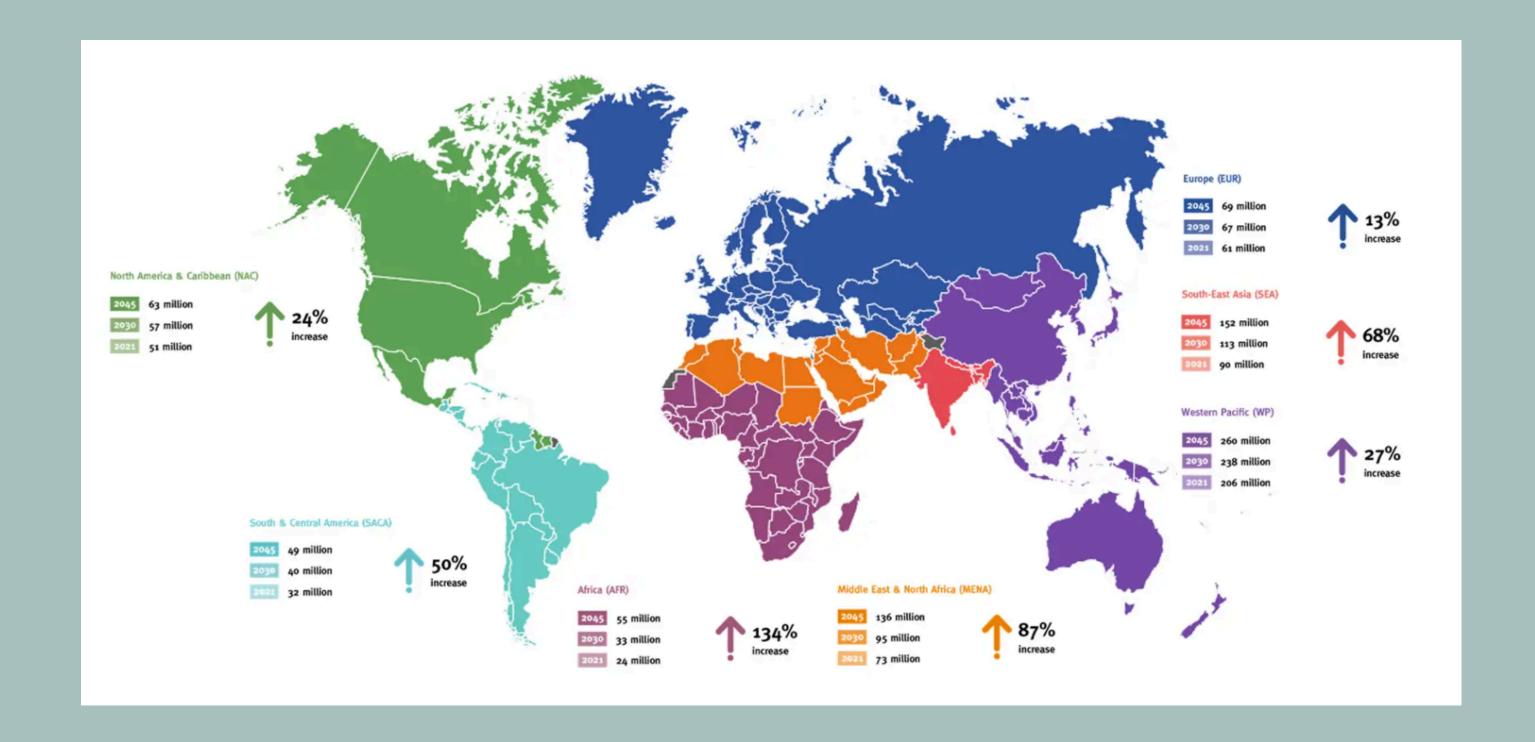


Eduardo Martínez Manzanero



Contents

- O1. Exploratory Data Analysis
- Data Preprocessing
- 03. ML Model Aproximation
- 04. Model Improvement
- 05. Conclusions

Target: Multiclass

Non diabetic

Prediabetic

Diabetic



Model election



Decision Tree Classifier

0 1

1 0

2 0



Linear SVC

0 0.99

0

2 0.09



KNN

0.99

1 0

2 0.09

Improving the model



Binarizing





☆ Downsampling

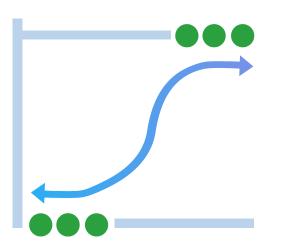




Scaling



Model selection



Logistic Regression

0 0.711 0.76



Decision Tree Classifier

0 0.711 0.71



KNN

0 0.681 0.75

Model selection



Linear SVC

0 0.72

1 0.77

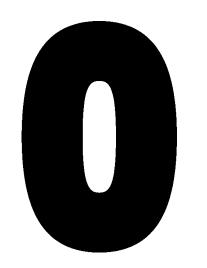


XGBoost

0 0.72

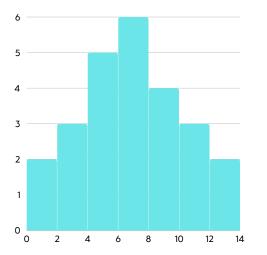
0.77

Scaling Model Selection Over XGBoost



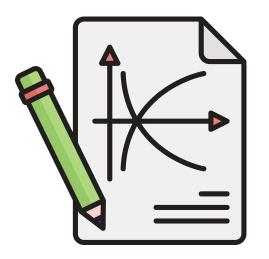
Min- Max Scaler

0 0.711 0.78



Standar Scaler

0 0.921 0.31



Log Transform

0 0.71

1 0.78

"diffwalk", "fruits"])

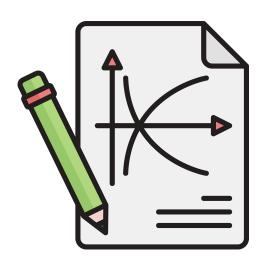
Dropping columns





XGBoost

0.71 0.78

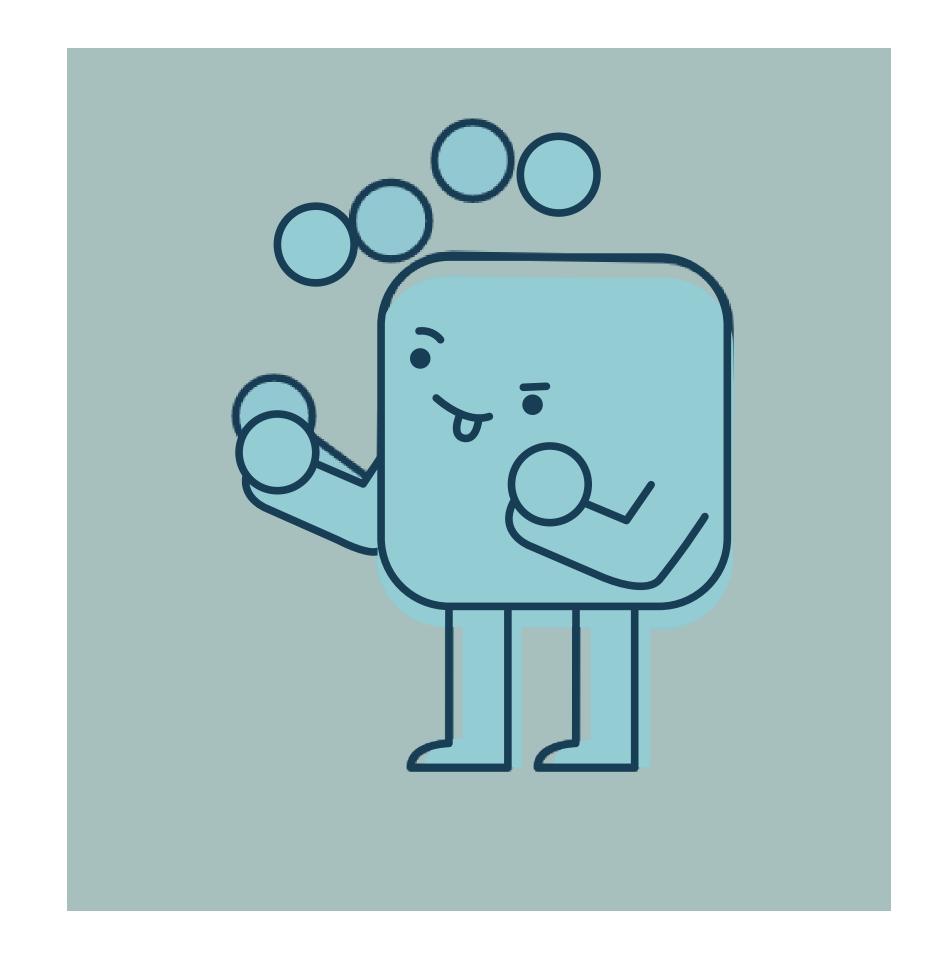


Log Transform

0.70

0.79

Cross-validation



Conclusiones

iMuchas gracias!

Eduardo Martínez Manzanero