GONZALO VILELA GUERRERO

PROYECTO DIABETES

OBJETIVOS:

- Predecir el nivel de glucosa en sangre
- Predecir cantidad de insulina necesaria
- Predecir la probabilidad de ser diabético

ELEMENTOS DATASET:

PatientID

Pregnancies

PlasmaGlucose

DiastolicBloodPressure

TricepsThickness

SerumInsulin

BMI

DiabetesPedigree

Age

Diabetic

GLUCOSA EN SANGRE

Pregnancies, TricepsThickness, SerumInsulin, BMI, DiabetesPedigree, Age, Diabetic

RANGOS DE GLUCOSA

1, 2, 3
1-85-110-MAS

CANTIDAD INSULINA

Pregnancies, PlasmaGlucose, DiastolicBloodPressure, TricepsThickness, BMI, DiabetesPedigree, Age, Diabetic

RANGOS DE INSULINA

1, 2,3
1-60-140-MAS

PREDICCIÓN DIABETES

Pregnancies, SerumInsulin, BMI, Age, Diabetic

RANGOS PADECER DIABETES

0, 1
0-0.50-MAS

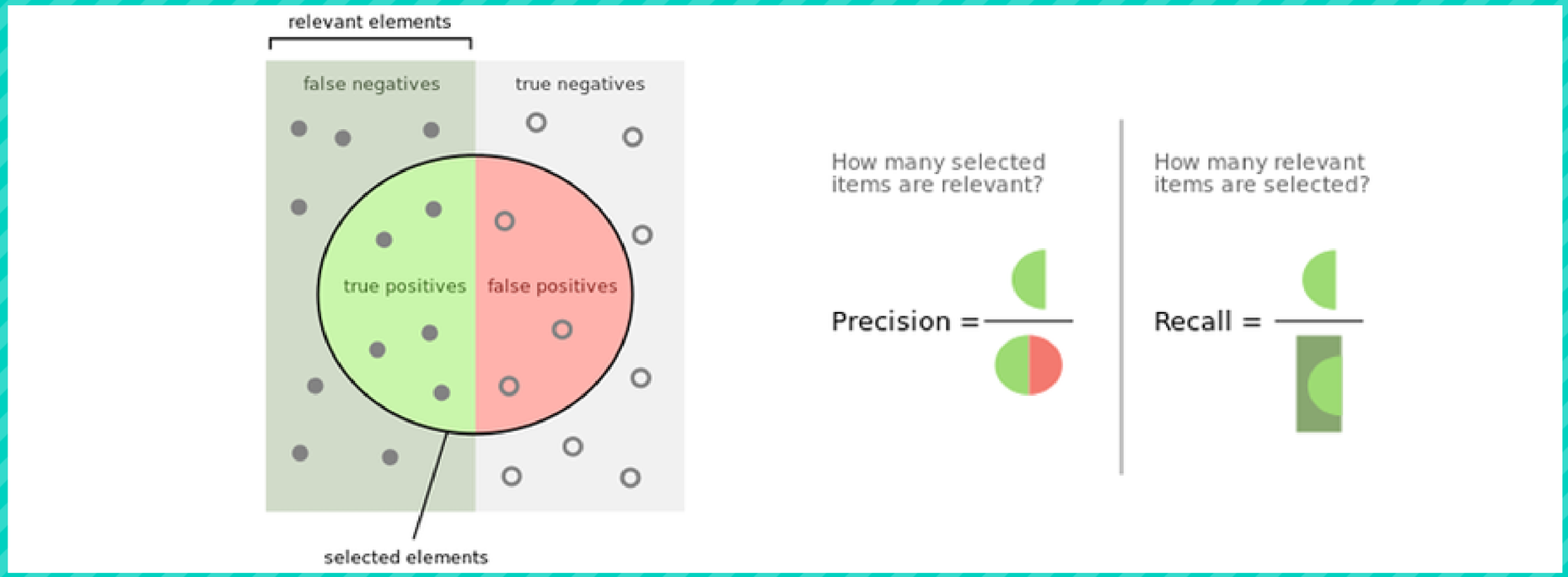
PREDICCIONES

PREDICCIÓN GLUCOSA 43.24%

PREDICCIÓN INSULINA 53.2%

PREDICCIÓN DIABETES 68.82%

PRECISION, RECALL & F1_SCORE

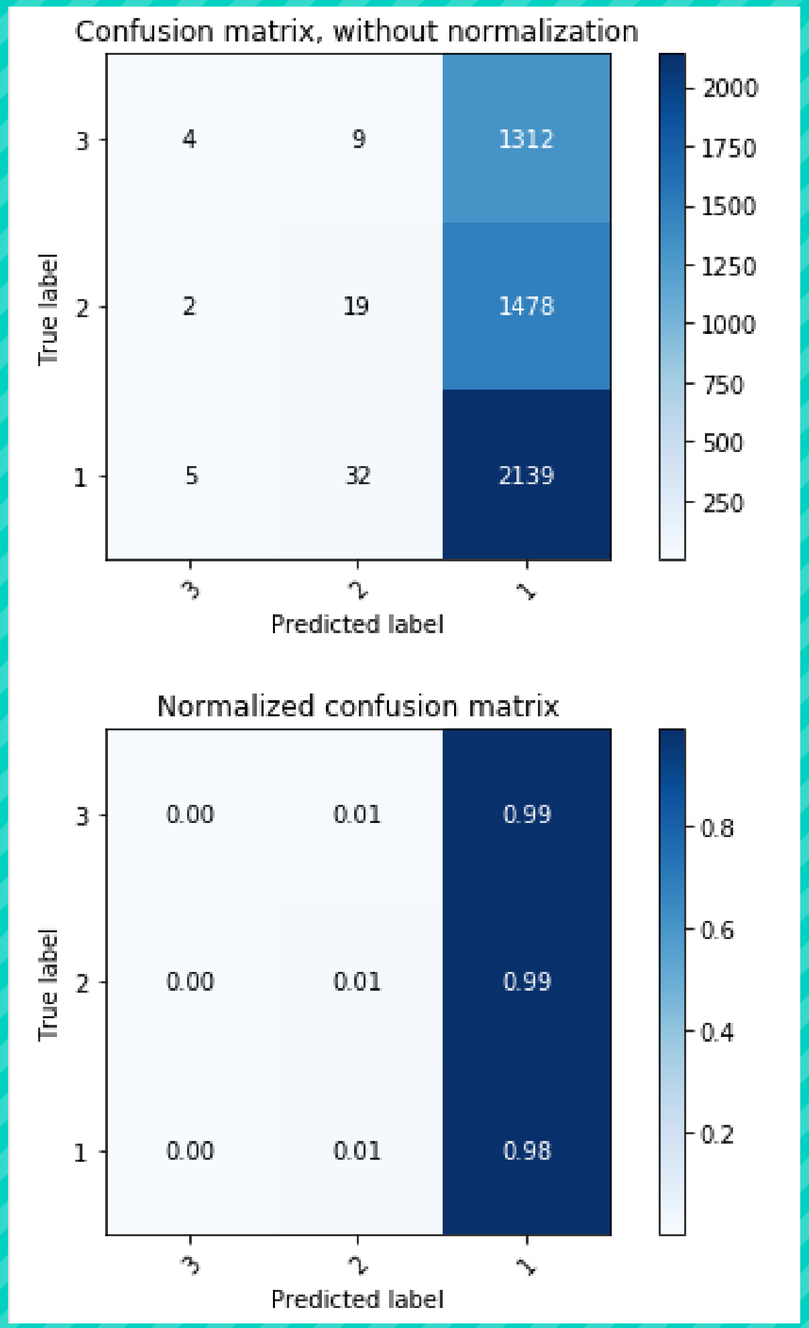


$$F_1 = 2 * \frac{precision * recall}{precision + recall}$$

PRECISION, RECALL & F1_SCORE:

GLUCOSA

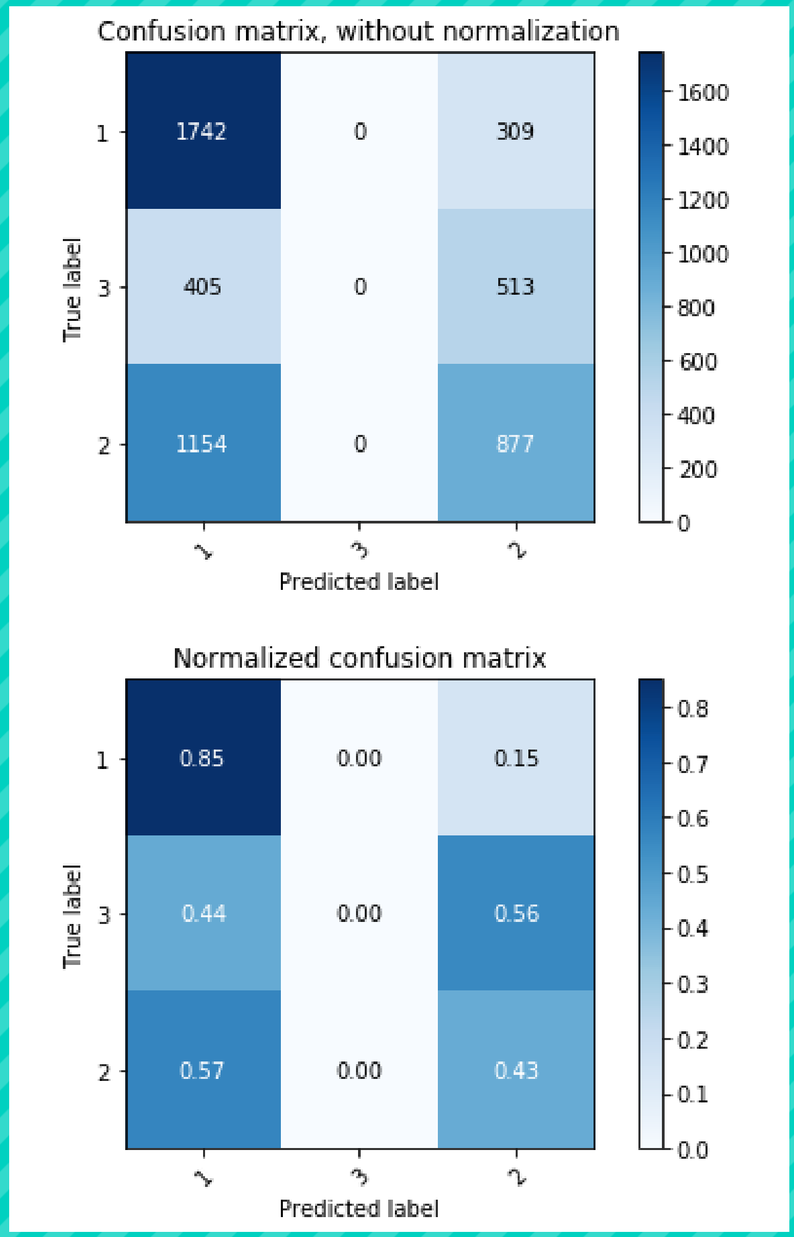
	Precision	Recall	F1-Score
pred. glucosa	0.380161	0.4324	0.270933



PRECISION, RECALL & F1_SCORE:

INSULINA

	Precision	Recall	F1-Score
pred. insulina	0.426145	0.5238	0.458041



PRECISION, RECALL & F1_SCORE:

PREDISPOSICIÓN DIABETES

	Precision	Recall	F1-Score
pred. diabetes	0.666667	0.00128	0.002556