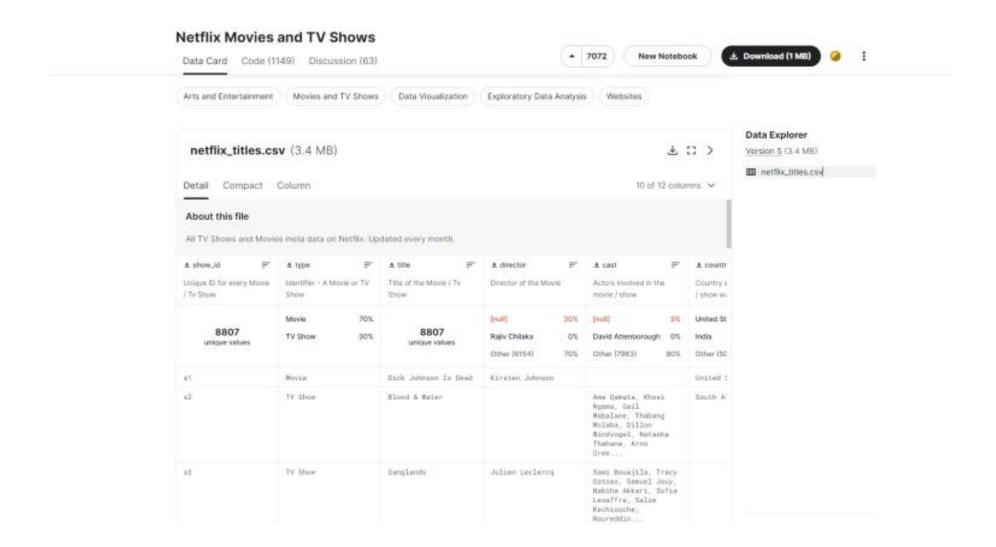
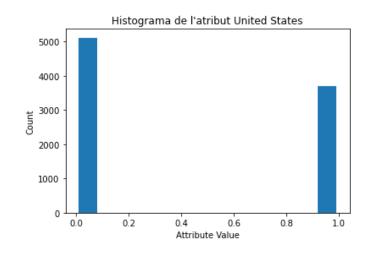
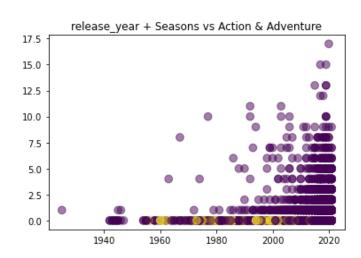
# CLASSIFICACIÓ SERIES I PEL-LICULES DE NETFLIX

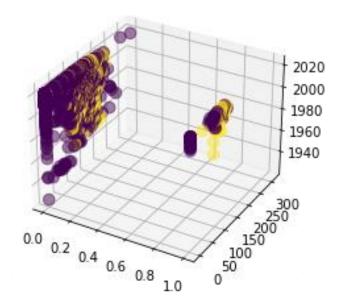
### PRESENTACIÓ DEL DATASET

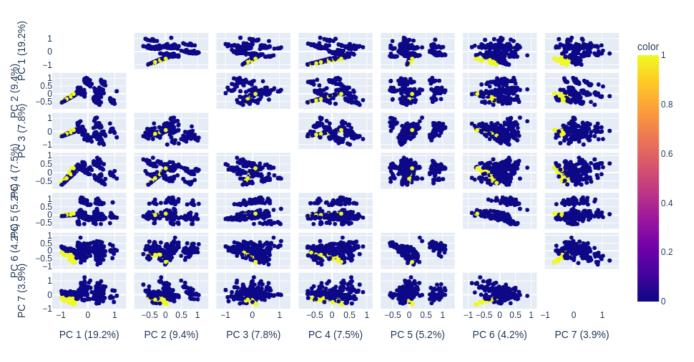


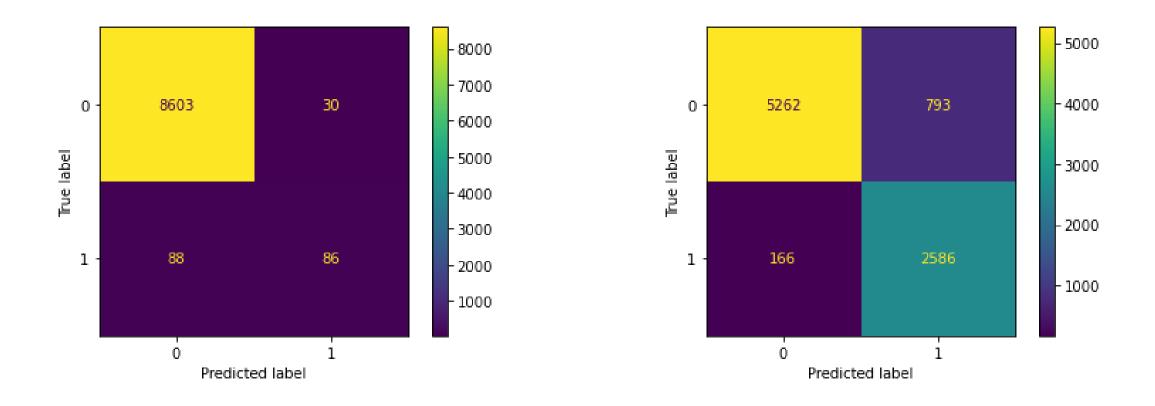
### ANÀLISI DE LES DADES:



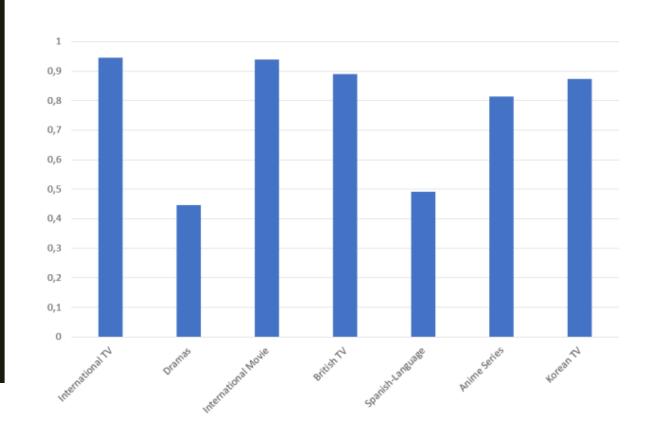




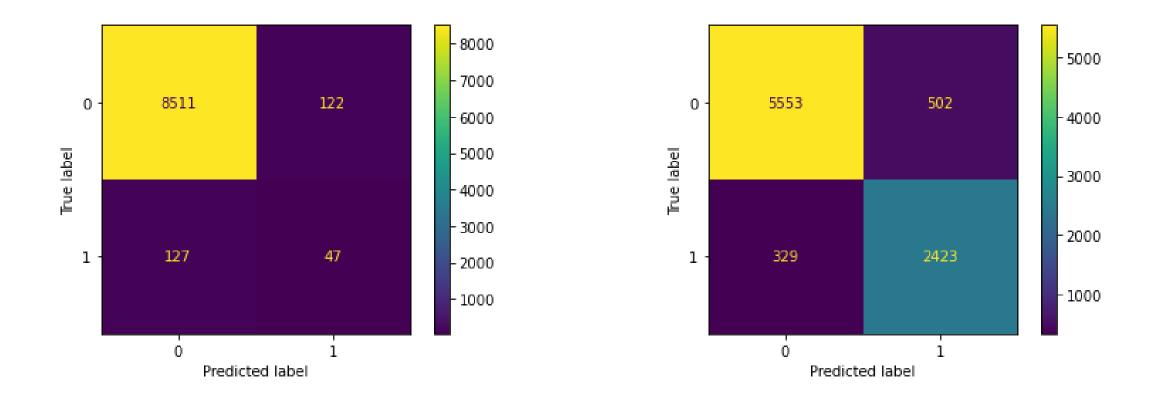




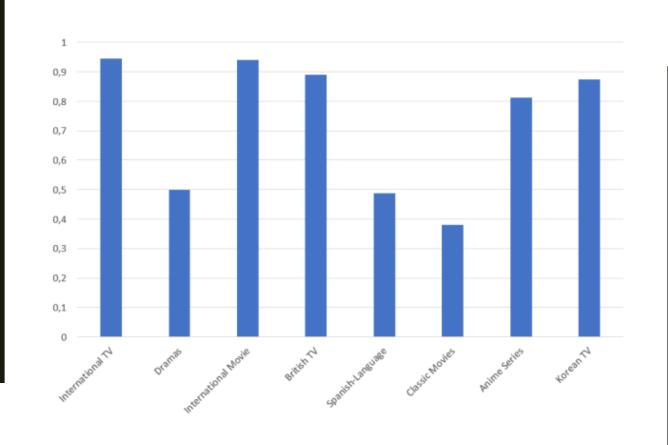
### MODEL LOGÍSTIC



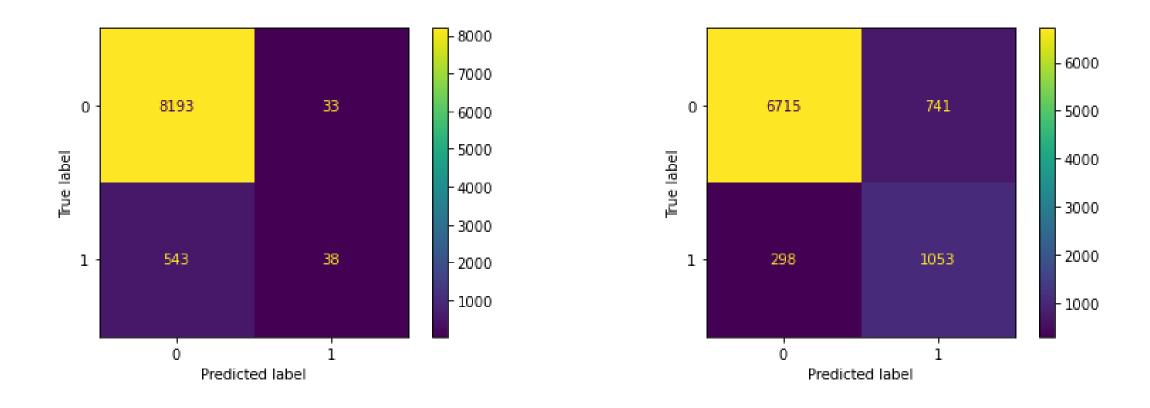
# MODEL LOGÍSTIC



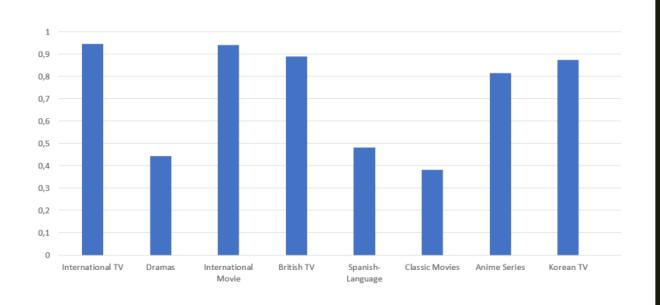
#### MODEL K-NEAREST NEIGHBOURS



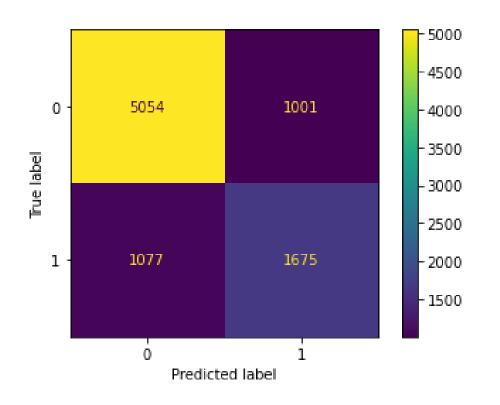
### MODEL K-NEAREST NEIGHBOURS

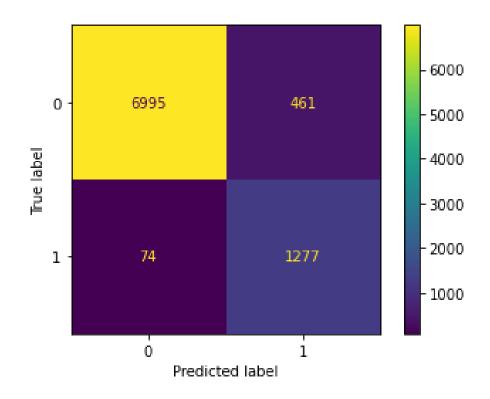


### MODEL SUPPORT VECTOR CLASSIFIER

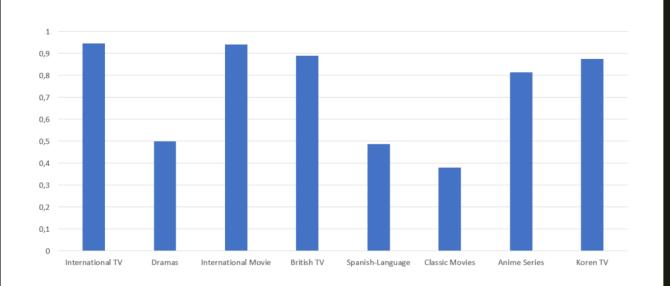


### MODEL SUPPORT VECTOR CLASSIFIER

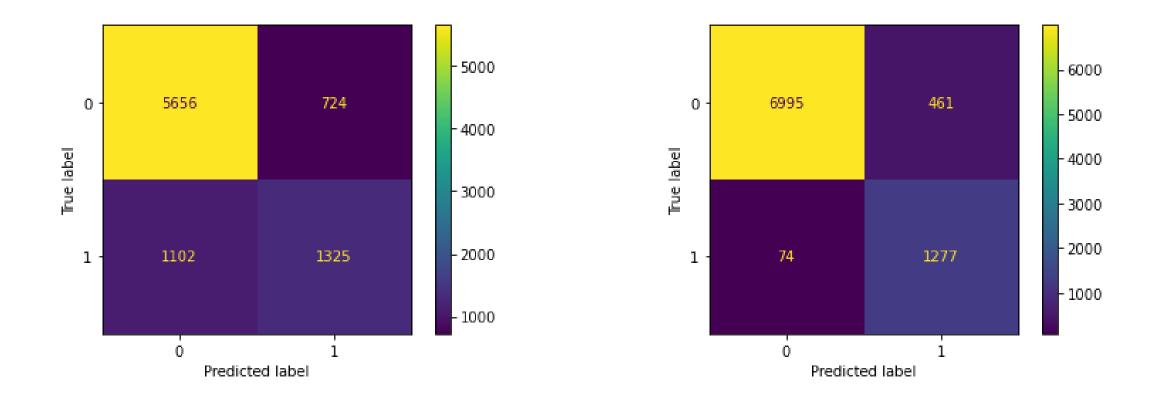




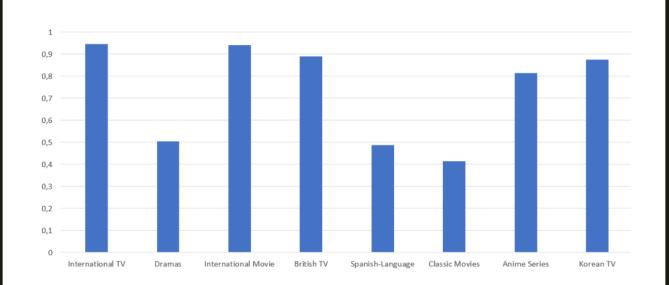
#### MODEL DECISION TREE



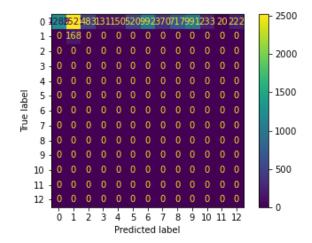
### MODEL DECISSION TREE

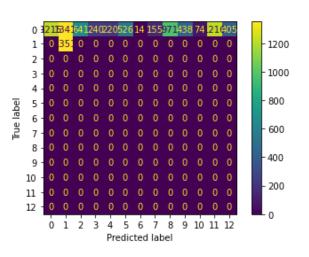


### MODEL RANDOM FOREST

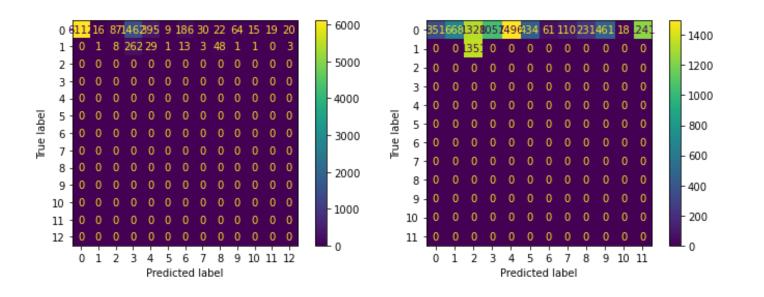


# MODEL RANDOM FOREST

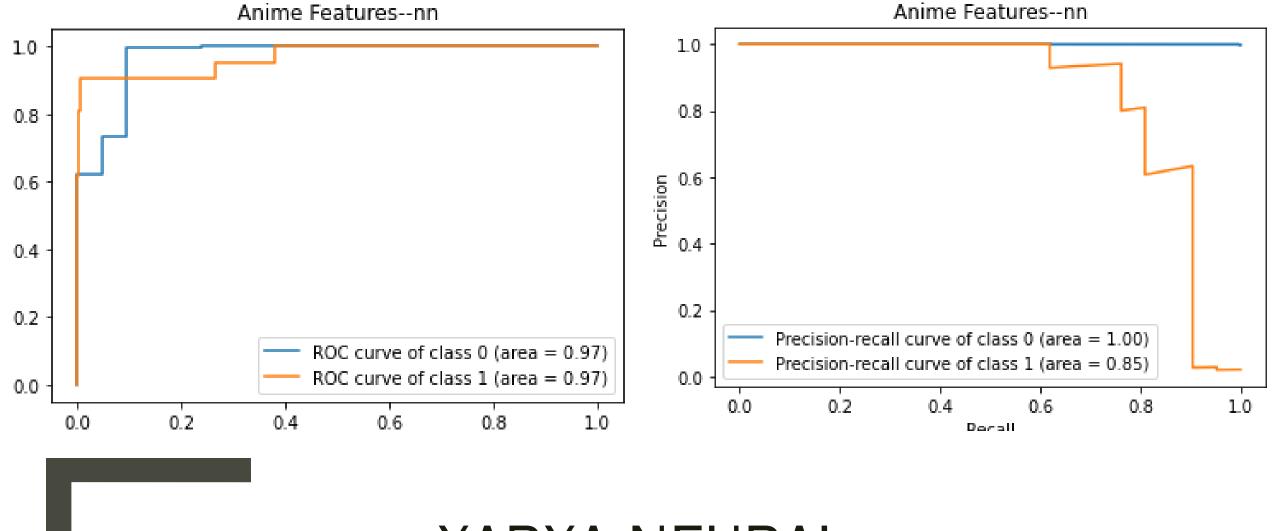




## MODEL K-MEANS



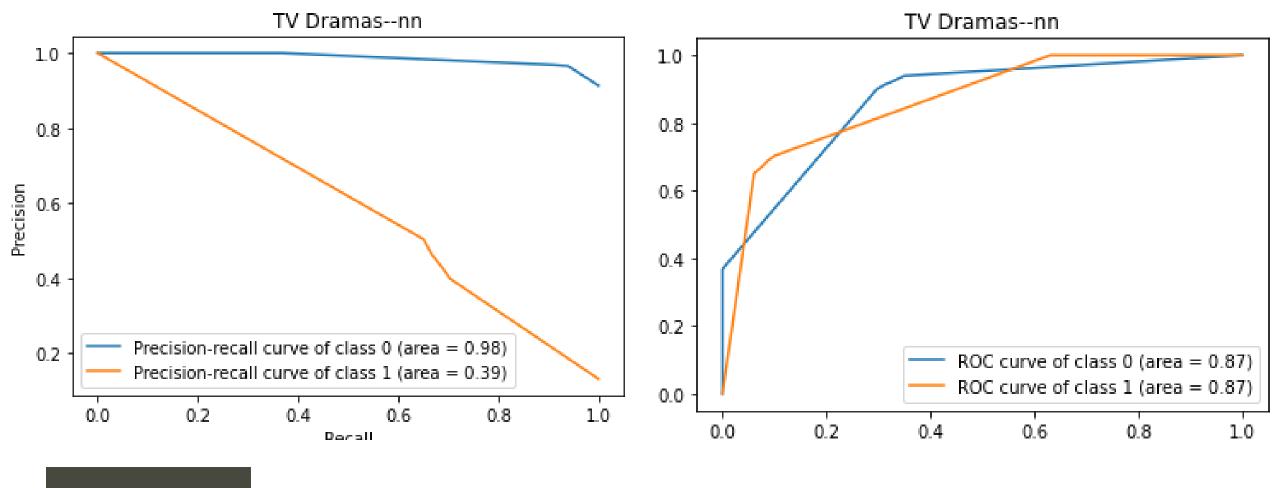
### MODEL GAUSSIAN MIXTURE



#### XARXA NEURAL

Variable	Classificador	Atributs	Precissió
International TV	Logístic	Movie Duration & U.S.A.	0.94
Dramas	Random Forest	Movie Duration & Seasons	0.56
International Movies	Logístic	U.S.A. & Seasons	0.94
British TV	Logístic	Movie Duration & U.K.	0.89
Spanish-Lang. TV Logístic		Spain & Mexico & Movie Duration	0.51
Anime Series	Logístic	Japan & Movie Duration	0.82
Korean TV	Logístic	South Korea & Movie Duration	0.87
Anime Features Neural Network		ALL	0.81
TV Dramas Neural Network		Classified types	0.59

### RESULTATS INICIALS



#### RESULTATS MITJANÇANT LES CLASSIFICACIONS DELS MODELS

CERCA
D'HIPERPARÀMETRES

Model	Atributs	Hiperparametres	Precissió
	International TV International Movies	C: K	0.95 0.94
Logístic	British TV	penalty: 12	0.89
	Spanish-Lan. TV	solver: lbfgs	0.53
	Anime Series	random state: 0	0.87
	Korean TV	3000000000 <del></del> 100000000	0.91
Random Forest	Dramas	n_estimators: 450 max_features: log <sub>2</sub> (n) criterion: entropy random_state: 0	0.52
Neural Network	Anime Features	activation: relu alpha: α <sub>1</sub> learnung_rate: constant learning_rate_init: L <sub>1</sub> solver: lbfgs random_state: 0 hidden layer sizes: (20, 20)	0.81
	TV Drama	activation: identity alpha: α <sub>2</sub> learnung_rate: invscaling learning_rate_init: L <sub>2</sub> solver: lbfgs random_state: 0 hidden_layer_sizes: (20,20)	0.60

Model		Temps d'execució (s)		Precission	Recall	Accuracy
Clas.	Atribut	$30\% \text{ data } 25 \cdot 10^4 \text{ prod.}$		1 recission	necan	Accuracy
Logístic	International TV	0.01	0.02	0.72	0.95	0.82
	International Mov.	0.01	0.02	0.76	0.94	0.84
	British TV	0.01	0.02	0.86	0.89	0.88
	Spanish-Lan. TV	0.01	0.03	0.74	0.54	0.62
	Anime Series	0.01	0.02	0.69	0.89	0.78
	Korean TV	0.01	0.03	0.75	0.91	0.82
Rnd Forest	Dramas	1.11	36.85	0.59	0.52	0.55
NN	Anime Features	0.44	0.94	0.74	0.81	0.77
	TV Drama	0.95	0.9	0.56	0.6	0.58

### RESULTATS DEL CLASSIFICADOR FINAL