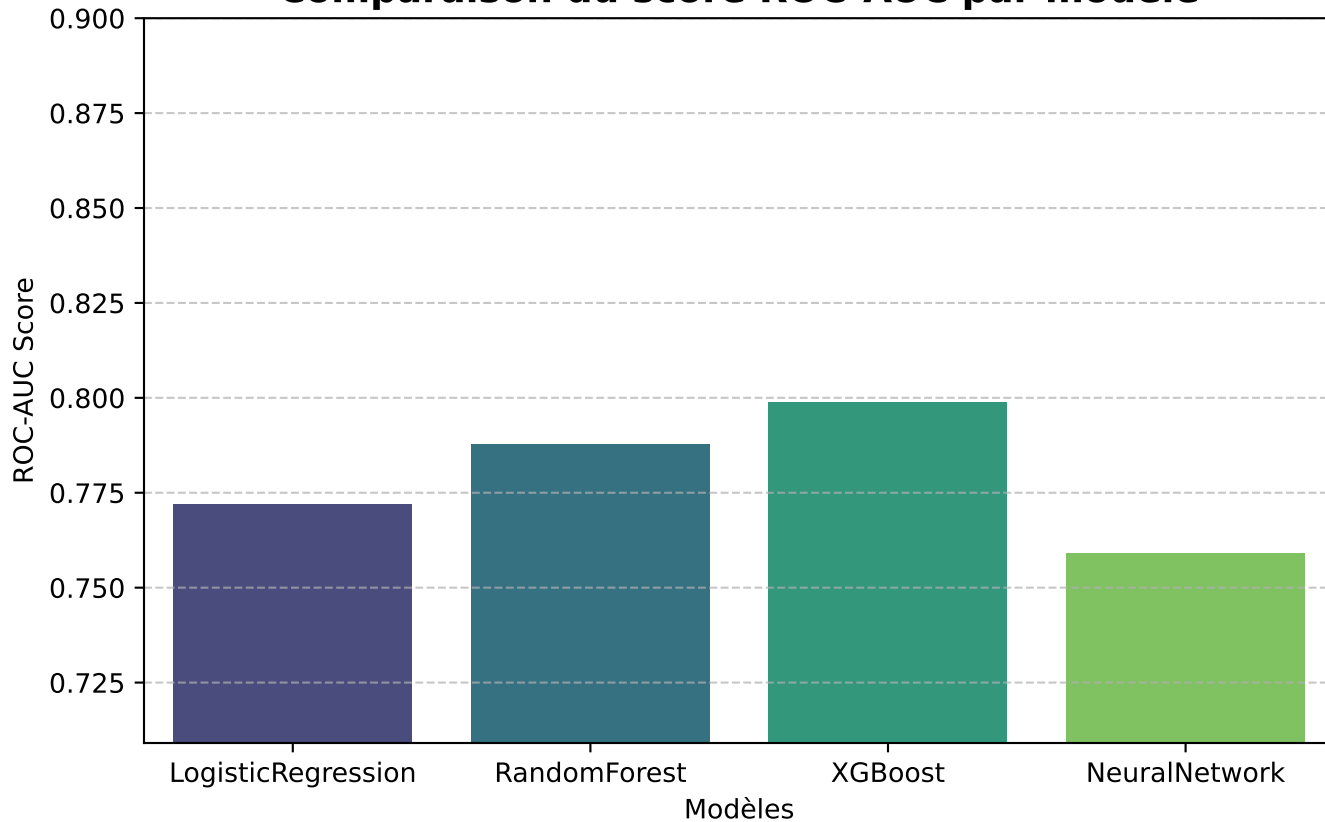


## Tableau récapitulatif des performances de validation

Model	BestParams	Val Accuracy	Val ROC-AUC
LogisticRegression	{'model__penalty': 'l2', 'model__C': 1.0}	0.695333	0.771948
max_depth': 10, 'model__min_samples_leaf': 2, 'model__min_samples_split': 2}	RandomForest	0.763333	0.787713
model__learning_rate': 0.1, 'model__max_depth': 3, 'model__n_estimators': 100}	XGBoost	0.726667	0.798801
activation': 'relu', 'model__n_hidden': 1001, 'model__hidden_layers_sizes': [1001, 1001]}	NeuralNetwork	0.793333	0.759084

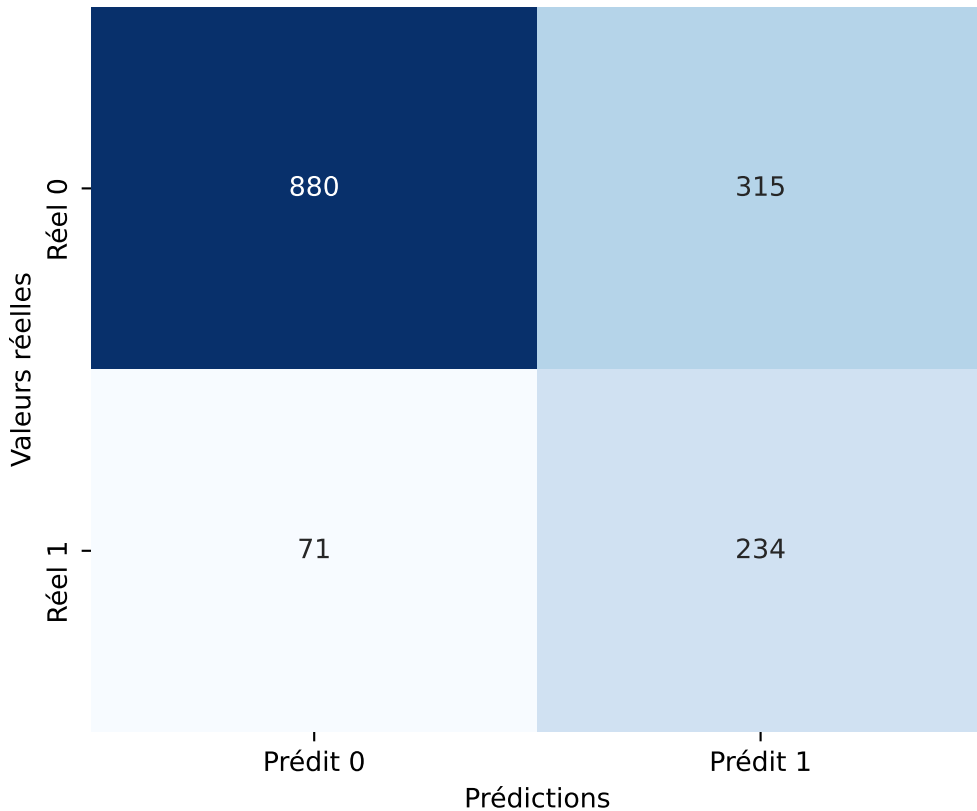
## Comparaison du score ROC-AUC par modèle



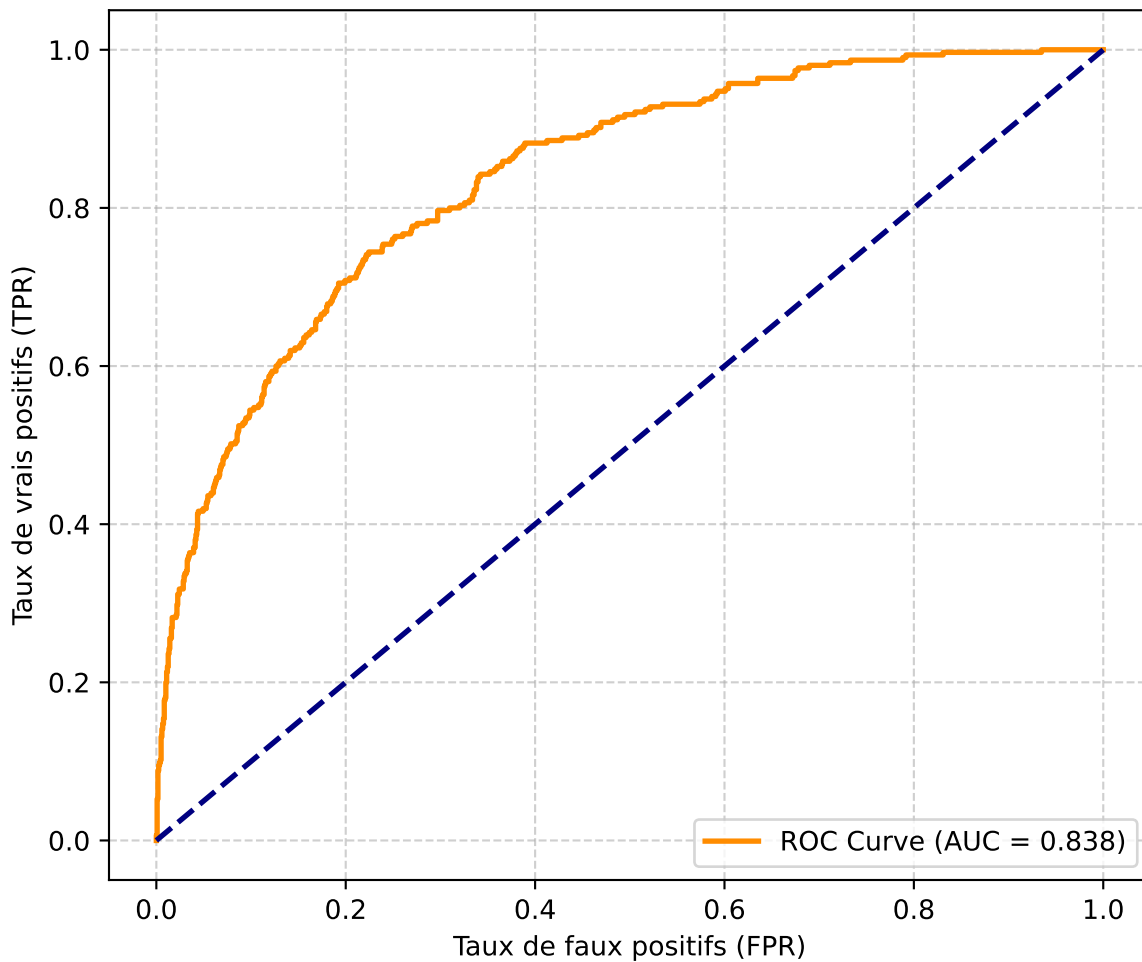
# Rapport de classification - XGBoost

	precision	recall	f1-score	support
0	0.93	0.74	0.82	1195
1	0.43	0.77	0.55	305
accuracy			0.74	1500
macro avg	0.68	0.75	0.68	1500
weighted avg	0.82	0.74	0.76	1500

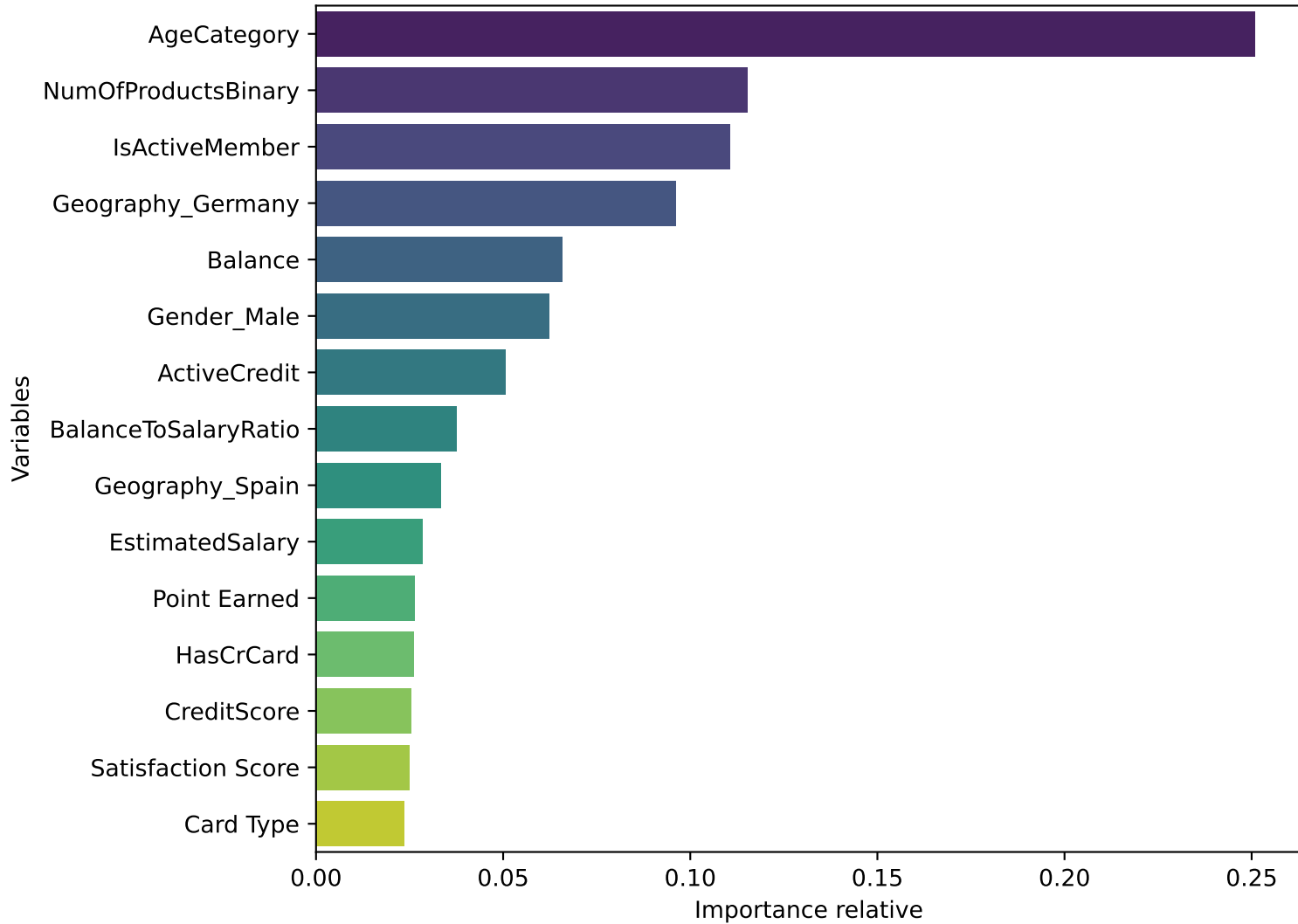
## Matrice de confusion - XGBoost



# Courbe ROC - XGBoost



## Top 15 variables importantes - XGBoost



IsActiveMember	0.11055243760347366
Geography_Germany	0.09610312432050705
Balance	0.06577705591917038
Gender_Male	0.062322333455085754
ActiveCredit	0.0506620928645134
BalanceToSalaryRatio	0.03760022670030594
Geography_Spain	0.033354561775922775
EstimatedSalary	0.02846047654747963
Point Earned	0.026405369862914085
HasCrCard	0.026003289967775345
CreditScore	0.0253834817558527
Satisfaction Score	0.02483825758099556

## Top 20 features importantes - XGBoost