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Authors

[Read more at The Hague Principles on Sexual Violence](#)

Modeling

Prediction of Sexual Violence

In this section, we use two models—Random Forest and XGBoost—to predict the occurrence of sexual violence. These models were selected for their ability to handle imbalanced classification tasks well.

Choose a Model for Prediction

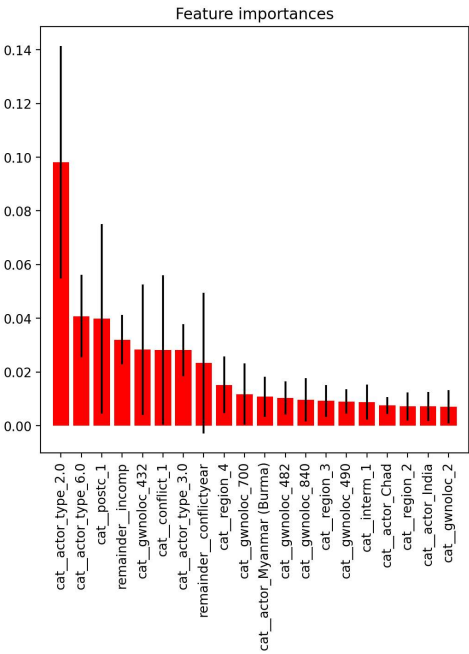
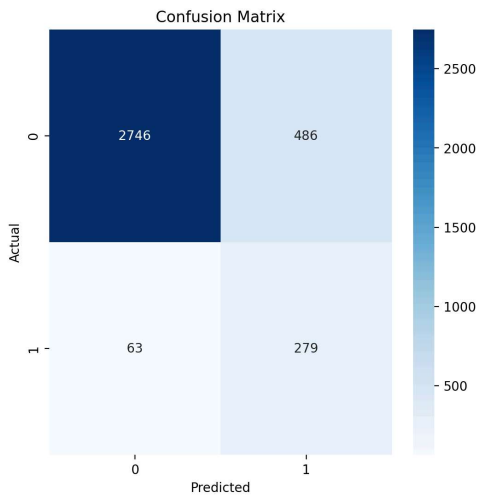
Random Forest

You selected: Random Forest

Model Performance Model Optimization

Confusion Matrix & Feature Importances

Confusion Matrix



Classification Report

	precision	recall	f1-score	support	
	0	0.98	0.85	0.91	3232
	1	0.36	0.82	0.50	342
	accuracy			0.85	3574
	macro avg	0.67	0.83	0.71	3574
	weighted avg	0.92	0.85	0.87	3574