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Authors

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

Conclusion and Key Findings

We aimed to predict the occurrence of sexual violence in armed conflicts using machine learning models. Our models, Random Forest and XGBoost, were tuned using Grid Search and Cross-validation techniques to address class imbalance.

Key Insights

- Actor Type:** The type of actor involved in the conflict was the most influential predictor of sexual violence.
- Post-Conflict Vulnerability:** Even after conflicts formally end, there remains a risk of sexual violence.

SHAP Analysis for Model Interpretability

