

Model Evaluation Report

Crypto Volatility Detection

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Milestone 3: Model Training & Evaluation

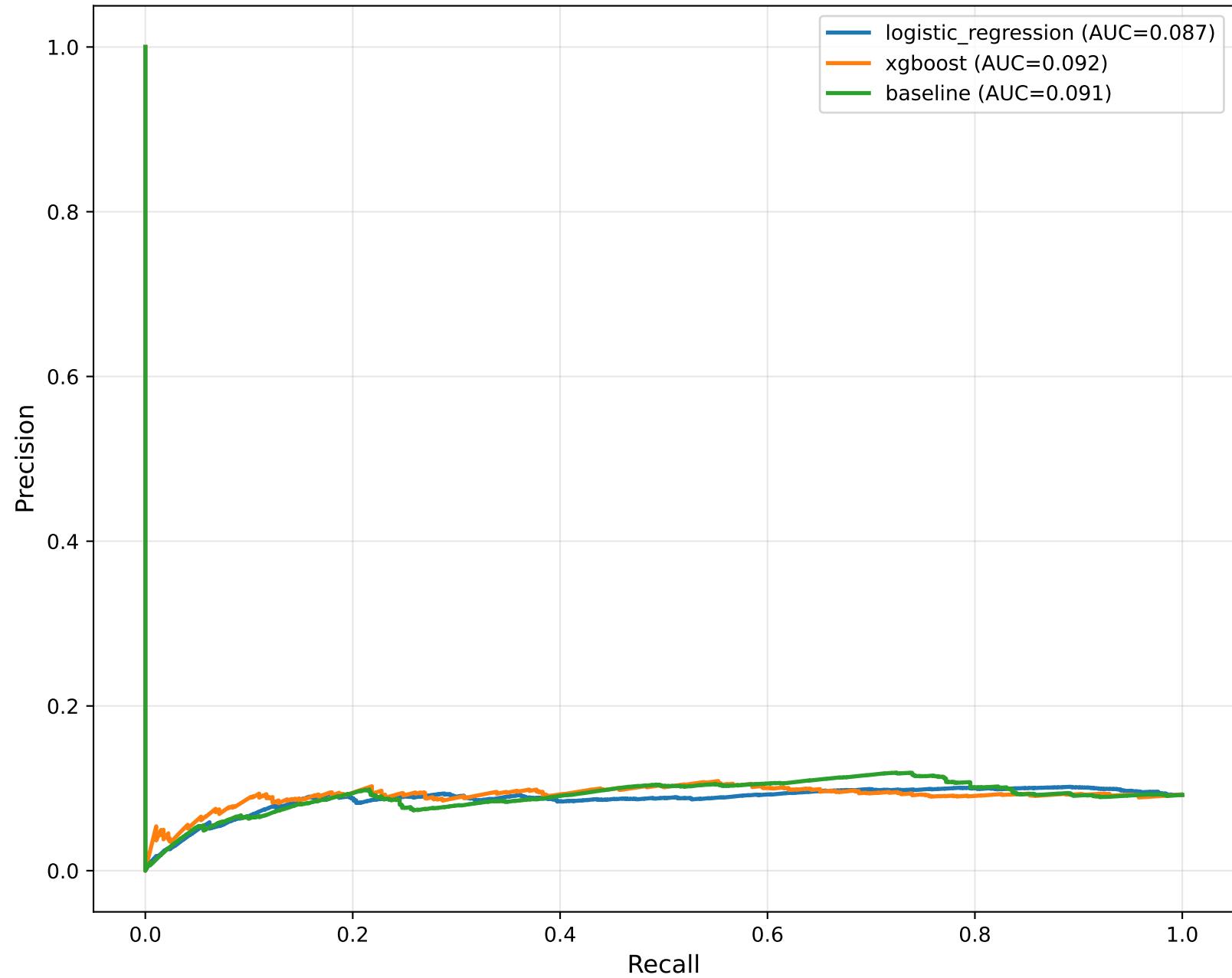
Model Performance Comparison

Model	PR-AUC	F1-Score	Precision	Recall	ROC-AUC
logistic_regression	0.0873	0.1798	0.1004	0.8598	0.5079
xgboost	0.0925	0.1321	0.0866	0.2780	0.5128
baseline	0.0907	0.0000	0.0000	0.0000	0.5267

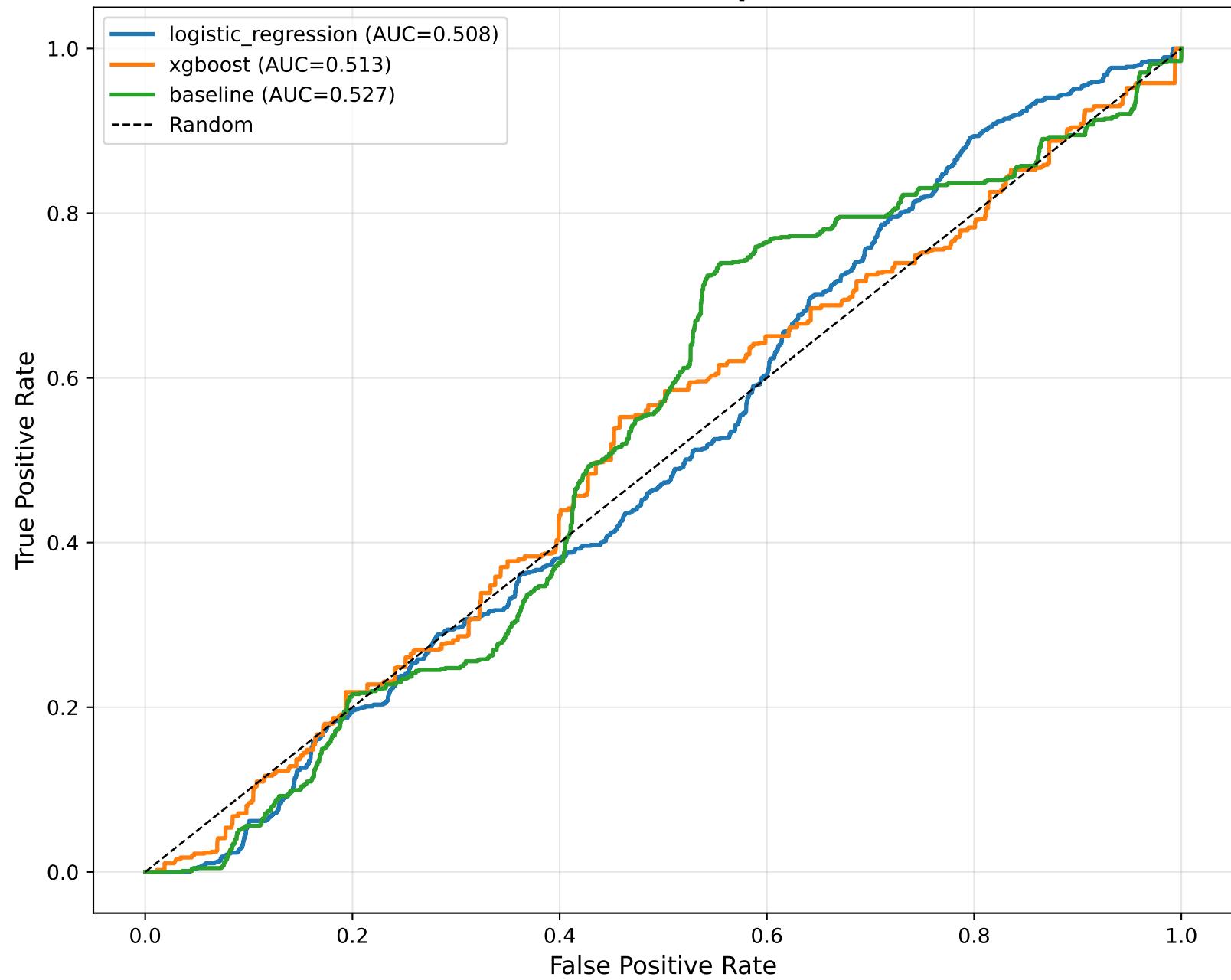
Primary Metric: PR-AUC (best: 0.0925)

PR-AUC is preferred due to class imbalance (spike events are rare)

Precision-Recall Curves Comparison

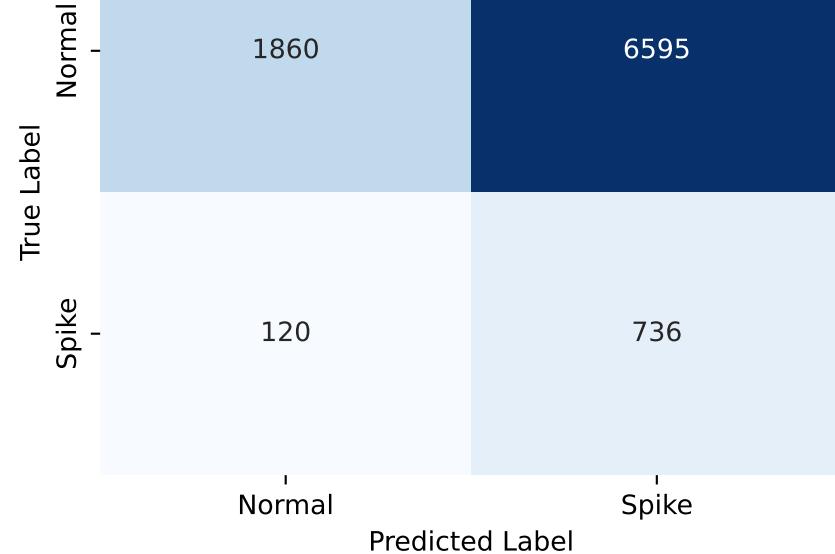


ROC Curves Comparison

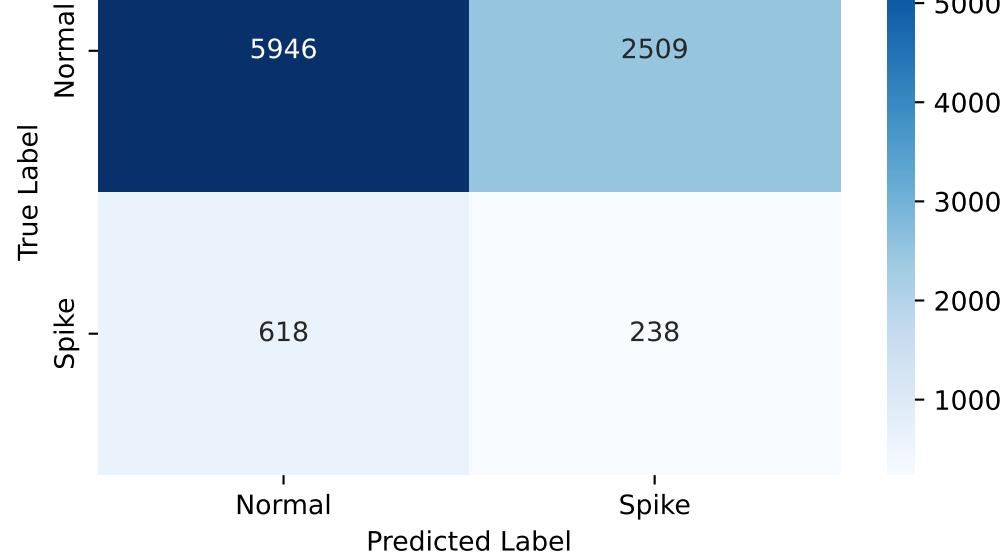


Confusion Matrices (Test Set)

logistic_regression



xgboost



baseline



Feature Importance

