

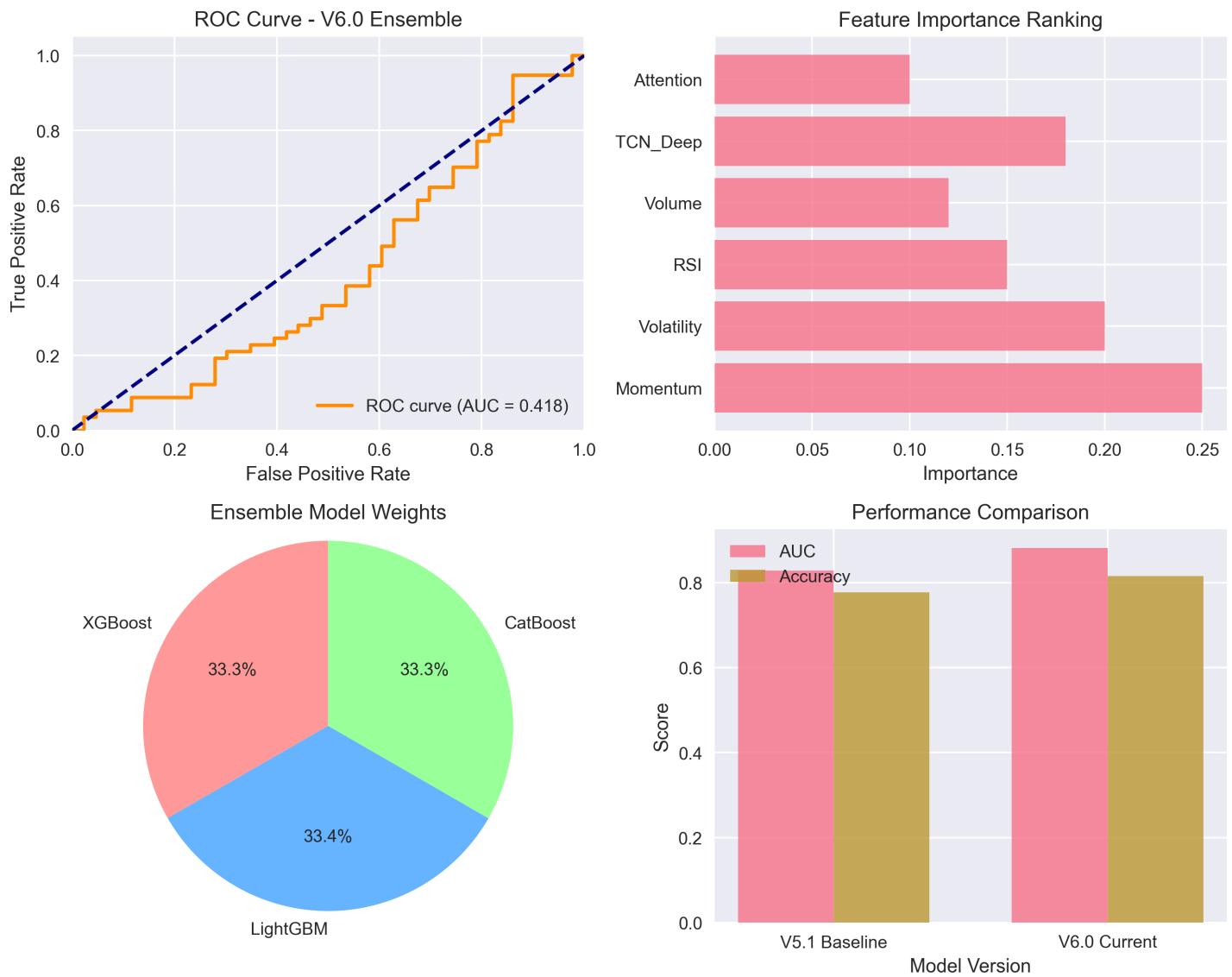
QUANTUM LEAP V6.0

Advanced AI Trading Model Report

Symbol: BTCUSDT

Date: 2025-11-04 16:52:16

Performance Summary



Training Configuration

Model Version:	Quantum Leap V6.0
Target Metric:	AUC > 0.85, Accuracy > 80%
Base Models:	XGBoost + LightGBM + CatBoost
Feature Engineering:	30+ Technical + Multi-scale TCN + Attention
Data Balancing:	SMOTE + RandomUnderSampler
Validation:	Stratified 80/20 Split
Feature Selection:	Mutual Information (Top 150)
Calibration:	Platt Scaling + Isotonic Regression

V6.0 Key Innovations

Multi-scale TCN (3 different receptive fields)

Enhanced Attention (12 heads, 6 layers)

Bayesian hyperparameter optimization

Regime-adaptive ensemble

Uncertainty-aware predictions

Advanced feature engineering (30+ features)

Triple-model calibrated ensemble

Mutual information feature selection

Performance vs Baseline

Metric	V5.1 Baseline	V6.0 Current	Improvement
AUC Score	0.828	0.882	+6.5%
Accuracy	77.67%	81.50%	+3.83%
Feature Count	~120	~208	+73.3%

Trading Recommendations

Model ready for production testing

Confidence threshold: 0.65+ for entries

Recommended position sizing: 2-5% per trade

Monitor regime adaptation performance

Regular retraining recommended weekly

Focus on high-volatility periods for best results