

Future Roadmap - GoQuant Live Strategy Backtester (TradePulse)

Phase 1: Post-Submission Enhancements

- Refactor Codebase for Modularity
- Add test coverage and CI/CD pipeline (GitHub Actions)
- Improve documentation for external developers

Phase 2: Live Trading Integration

- Real-money Paper Trading via Binance Testnet
- Live Order Execution & Real-time Risk Management
- Extend Slippage Model to reflect live market impact

Phase 3: Strategy Intelligence

- Add Machine Learning strategy modules (e.g., XGBoost, LSTM)
- Reinforcement Learning for adaptive strategies
- Integrate market sentiment from Twitter/news APIs

Phase 4: Portfolio & Risk Analytics

- VaR / CVaR / Beta exposure analytics
- Dynamic Capital Allocation using Kelly Criterion or CVaR optimization

Phase 5: Platform Expansion

- Launch Web Dashboard (React + Flask/FastAPI backend)
- Mobile Alerts for live trade notifications
- Historical data importers for NSE/BSE/Crypto

Phase 6: Advanced Simulation & Optimization

- Genetic Algorithm/Grid Search + Walk Forward Optimization
- Regime-aware switching between strategies

Long-Term Vision

- Deploy as SaaS platform for retail quants
- User authentication & private strategy sandbox
- Discord/Slack bot integration for trade alerts

This roadmap provides a structured plan for advancing the TradePulse platform toward a production-ready quant trading stack.

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Project: GoQuant – Live Strategy Backtester

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