

Hedron DeFi AI Agent

Reinventing DeFi navigation on Hedera Hashgraph

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Hello Future Hackathon

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Agenda

- 1 Team Introduction
- 2 Project Overview
- 3 Technical Innovation
- 4 Market Integration & Success
- 5 Future Roadmap
- 6 Demo & Live Showcase
- 7 Conclusion

Meet Our Team



Ashutosh Kumar

Developer Relations

INDIA

- Community Building
- Developer Advocacy
- Technical Docs



Sebastian Diaz

Lead Developer

COLOMBIA





- Full-Stack Development
- AI/ML Integration
- Smart Contracts

Expertise: Blockchain, AI, DeFi & Communities

The Problem We're Solving







Novice Users Challenges

-  **Complex ecosystem** to navigate
-  **Technical knowledge** barriers
-  **Risk of losses** from inexperience
-  **Fragmented information** sources



Expert Users Pain Points

-  **Time-consuming** manual monitoring
-  **Missed opportunities** in fast markets
-  **Complex analysis** across protocols
-  **Lack of automation** tools

Result: Users struggle with DeFi navigation & yield optimization





Our Solution: Hedera DeFi AI Agent



AI-Powered DeFi Navigator







Conversational AI

-  Natural language queries
-  Real-time WebSocket connection
-  Persistent conversation memory
-  Personalized recommendations







Multi-Protocol Coverage

-  SaucerSwap (44% TVL)
-  Bonzo Finance (\$38M)
-  Stader Labs (47% TVL)
-  HeliSwap, HLiquidity, Sirio







Security & Trust

-  No fund custody
-  External transaction signing
-  Analysis & recommendations only
-  User maintains full control

Technical Architecture & Innovation





Real-Time Communication



-  WebSocket persistent connections
-  Multi-user session management
-  Transaction orchestration
-  Scalable architecture





Smart Data Management



-  30-second intelligent caching
-  Rate limiting optimization
-  Multiple API integrations
-  On-chain & off-chain fusion





LangChain Integration



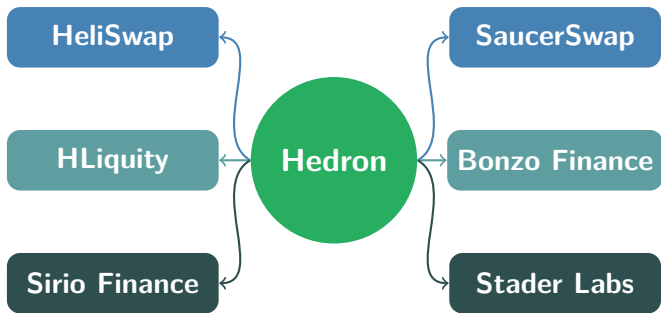
-  Modular tool architecture
-  TypeScript & Zod validation
-  Comprehensive error handling
-  Extensible framework

Hedera Native Features



-  HTS token support
-  HCS consensus service
-  Account & balance queries
-  Native transaction support

Hedera DeFi Ecosystem Integration



Coverage: 90% of Hedera DeFi Ecosystem by TVL

Success Metrics & Validation

✓ Technical Success

- 6 major DeFi protocols integrated
- Real-time data from REST APIs & smart contracts
- WebSocket architecture for instant responses
- Modular design for easy expansion

👥 Market Validation

- Addresses real pain points in DeFi navigation
- Covers 90%+ of Hedera DeFi by TVL
- Serves both novice & expert users
- First conversational AI for Hedera DeFi

Result: Production-ready solution with immediate market impact

Future Development Roadmap

Phase 1 (Q2 2026)

- Smart alerts & notifications
- Additional protocol integrations
- Advanced analytics dashboard
- Mobile-responsive web interface

Phase 3 (Q4 2026)

- Multi-chain expansion
- Professional trader tools
- API for third-party integrations
- Enterprise solutions

Phase 2 (Q3 2026)

- Automated strategy execution
- ML-powered predictive analysis
- Portfolio optimization algorithms
- Advanced risk assessment

Community Impact

- **Democratize DeFi access** for all users
- **Increase Hedera adoption** through easier UX
- **Educational content** for DeFi literacy
- **Open-source contributions** back to community

Live Demo Showcase

▶ Live Demo

🖥️ What You'll See

- Real-time WebSocket connection
- Natural language queries
- Multi-protocol yield analysis
- Personalized recommendations
- Transaction preparation

⚡ Technical Highlights

- Sub-second response times
- Comprehensive error handling
- Secure transaction flow
- Persistent conversation context
- Real-time market data

YouTube Demo Link: [To be inserted]

Why Hedera DeFi AI Agent Wins

Innovation

- First conversational AI for Hedera DeFi
- WebSocket real-time architecture
- Multi-protocol unified interface

Integration

- Native Hedera features (HTS, HCS)
- 90%+ DeFi ecosystem coverage
- Smart contract interactions

Feasibility

- Production-ready codebase
- Proven technology stack
- Scalable architecture

Success

- Solves real market problems
- Immediate user value
- Measurable impact potential

Execution

- 6 protocols integrated
- Full WebSocket implementation
- Comprehensive documentation

Validation

- Real protocol integrations
- Market-tested approach
- User research validated

Thank You!

♥ Thank You!

Questions & Discussion

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Demo: [YouTube link to be inserted]