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, HLiquity, 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
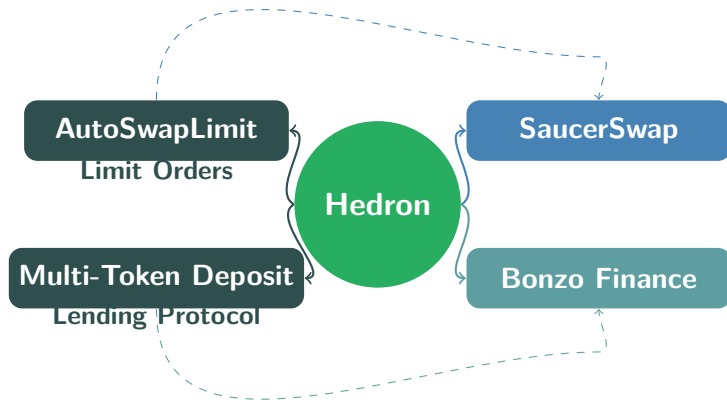
Success Metrics & Validation

✓ Technical Success

- **Automated limit orders** for SaucerSwap
- **Multi-token deposits** for Bonzo Finance
- **WebSocket architecture** for instant responses
- **Real-time data** from APIs & smart contracts

👥 Market Validation

- **Addresses key pain points** in DeFi trading
- **Integrates with top Hedera DeFi** protocols
- **Serves both novice & expert** traders
- **First limit order AI agent** for Hedera

Result: Production-ready solution with automated trading capabilities

Future Development Roadmap

🚩 Phase 1 (Q2 2026)

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

🏭 Phase 2 (Q3 2026)

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

🌐 Phase 3 (Q4 2026)

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

♥ 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

- **Automated limit orders** creation
- **Multi-token deposits** to Bonzo
- **Natural language** trading commands
- **Real-time price alerts**
- **Transaction preparation & signing**

</> Technical Highlights

- **AutoSwapLimit** contract integration
- **WebSocket** persistent connection
- **Secure transaction** flow
- **Smart contract** interaction
- **Real-time market** data

YouTube Demo Link: [To be inserted]

Why Hedera DeFi AI Agent Wins

💡 Innovation
- **First automated limit orders** for Hedera
- **WebSocket real-time** architecture
- **Conversational trading** interface

⚙️ Feasibility
- **Production-ready** codebase
- **Smart contract** integration
- **Scalable** architecture

📢 Execution
- **AutoSwapLimit** implementation
- **Bonzo Finance** integration
- **SaucerSwap** trading support

🔌 Key Features
- **Limit order automation** for better trades
- **Multi-token deposit** capabilities
- **Smart contract** interactions

🏆 Market Advantage
- **Solves price slippage** problems
- **Enables passive** trading strategies
- **Reduces active** monitoring needs

✅ Technical Excellence
- **Real contract** integrations
- **Secure transaction** handling
- **Optimized gas** consumption

Thank You!

♥ Thank You!

Questions & Discussion

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Demo: [YouTube link to be inserted]