

Ava ID — Smart Identity for a Decentralized Future

Hackathons: **Hedera Global Hackathon 2025 | AWS Vibe Hackathon 2025**

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Team Roles

Team Leader

Frontend Developer

Data Analyst

Graphic Designer

Problem

Digital identity management is fragmented, insecure, and emotionally disconnected.

Users juggle multiple IDs across apps and platforms.

Data breaches and identity theft keep rising.

Governments and organizations struggle with verification and privacy compliance.

➡ The result: lost trust, inefficiency, and exposure to fraud.

Solution

Ava ID is an AI-powered digital identity vault that secures, verifies, and manages all IDs in one encrypted ecosystem.

It merges AI recognition, Hedera blockchain, and cloud verification to give users instant, verifiable control of their credentials.

- ✓ Secure storage (AES-256 + Hedera hashing)
- ✓ AI facial verification & voice authentication
- ✓ One-tap sharing and revocation
- ✓ Cross-platform (web + mobile + API)

Product Overview

Ava ID delivers a seamless, intelligent user experience.

Core Features:

Add ID: Scan or upload passports, licenses, or documents

AI Avatar: Animated TTS avatar for natural interaction

Voice Recognition: Personalized access control

Memory Center: Activity history + audit trail

Vault: Encrypted multi-ID storage with permissions

Integrations: AWS AI Services · Hedera · Constellation Hypergraph

Technology Stack

Frontend: React Native / Expo

Backend: FastAPI (Python 3.11)

Database: Supabase (PostgreSQL + Auth)

Cloud: AWS (S3, Lambda, Cognito, Rekognition)

AI Layer: Ava Assistant Engine + TTS/Waveform Module

Blockchain: Hedera for proof and immutability

Interoperability: Constellation Hypergraph APIs

Architecture Overview

[User Interface (React Native / Web)]

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[FastAPI Backend]

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[Services Layer]

|— AWS Client

|— Hedera Client

|— Hypergraph Client

|— Supabase Client

|— AI Assistant

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[Encrypted Vault + Blockchain Proof]

Market Opportunity

Global Digital ID Market: ≈ \$70 B by 2030 (≈ 17 % CAGR)

Demand surging in governments, fintech, and enterprises

Shift toward AI-driven identity with privacy and automation

➡ *Ava ID* positions itself at the intersection of AI + Trust + Decentralization.

Business Model

Freemium Plan: Basic storage + verification

Pro Plan: Advanced AI features, custom avatars (\$4.99/mo)

Enterprise API: Integration for banks, fintechs, governments

B2B Partnerships: Identity Verification as a Service (IVaaS)

Traction & Roadmap

Phase 1 – MVP (Hackathon Stage)

- ✓ Backend + Frontend integrations (AWS / Hedera / Supabase)
- ✓ Voice + Avatar modules
- ✓ Secure storage and verification flow

Phase 2 – Beta Launch

- Mobile App release (Play Store + TestFlight)
- Integration with digital signing partners

Phase 3 – Global Scale

- Enterprise API Gateway
- Compliance (ISO 27001 / GDPR)
- Developer SDK

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Vision

Ava ID is not just an ID manager — it's the future of personal identity autonomy.

By fusing trust, AI, and user control, *Ava ID* empowers individuals to own and protect their digital identity in a connected world.

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Impact & Future

Ava ID bridges AI-human interaction with trustless decentralization.

Its goal is to create a new standard for secure identity exchange and verification globally.

Future Integrations:

WorldID & Polygon ID compatibility

Biometric passkey support

Decentralized AI agent identity