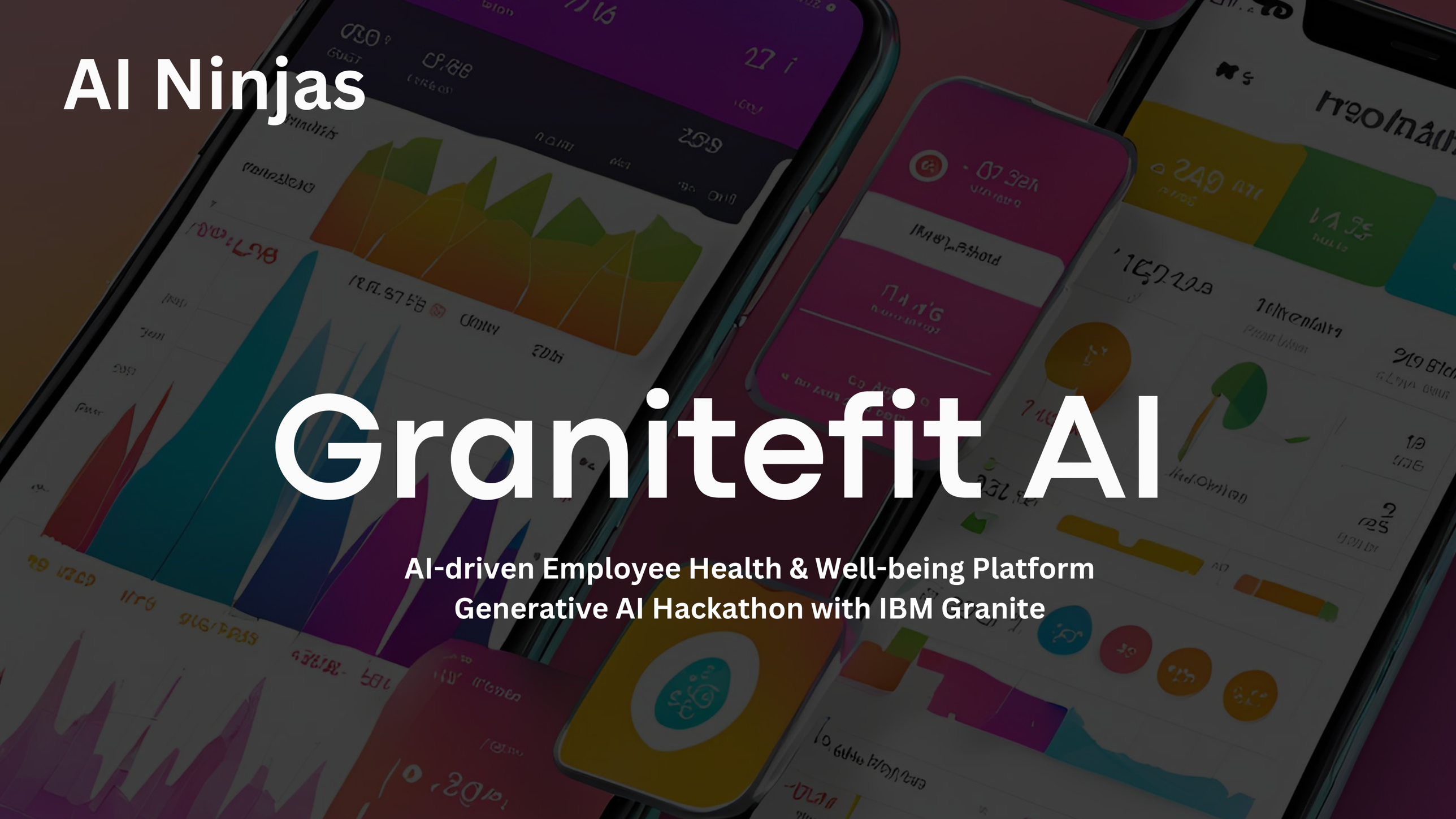
AI Ninjas

Granitefit AI

AI-driven Employee Health & Well-being Platform
Generative AI Hackathon with IBM Granite



Problem Statement

- Issue: Sedentary lifestyles in modern tech workplaces lead to physical & mental health issues.

- Pain Points:
  - Long sitting hours 🪑
  - Eye strain 👀
  - Poor work-life balance ⚖️
  - Mental health struggles 🧠

Our Solution

- AI-driven Platform for workplace wellness.

Provides:

- Reminders for movement, hydration & eye care.
- Work-life balance optimization.
- Mental health recommendations.

Key Features

1 Smart Reminders - Alerts for breaks & posture correction.

2 Eye Protection AI - Screen brightness adjustments.

3 Work-Life Balance Assistant - Prioritizes tasks.

4 Mental Health Monitoring - AI-driven stress reduction suggestions.

Tech Stack

Programming Language

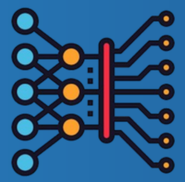
Python

Frameworks/Libraries:

- Streamlit : For building the interactive web interface.
- PyTorch : For implementing the Deep Q-Network (DQN).
- AI & ML: IBM Granite AI, OpenAI GPT
- Frontend: Streamlit, React (planned UI enhancement)
- Backend: FastAPI, Flask
- Database: MongoDB, PostgreSQL
- Cloud & Deployment: IBM Cloud, AWS, Docker

IBM Granite AI Integration

- Used IBM Granite Models for:
- Health recommendations.
- Personalized AI-based reminders.
- Smart workplace assistant.

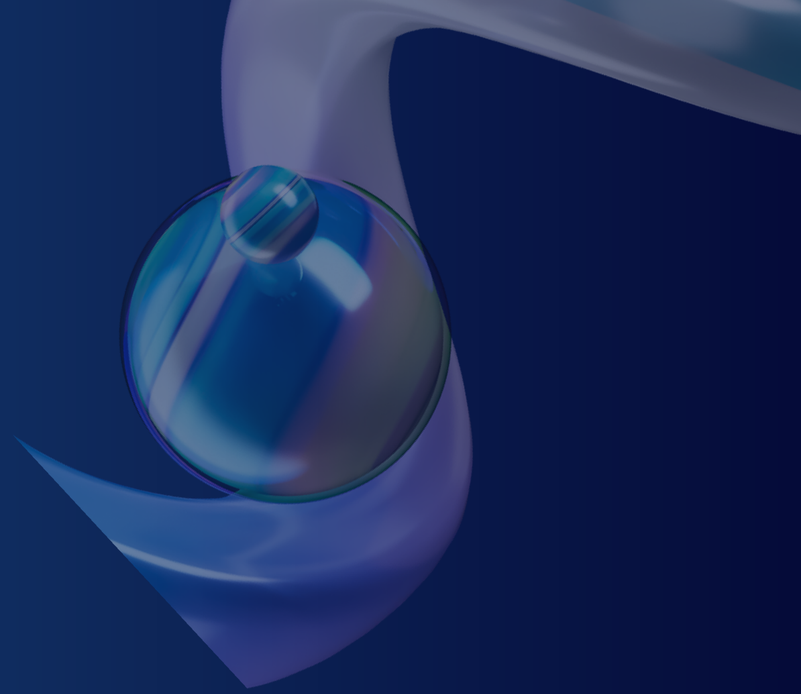


Models Used

IBM GRANITE MODEL

- Health IBM Granite AI Integration
- recommendations.
- Personalized AI-based reminders.
- Smart workplace assistant.

Use Cases



Corporate Wellness Programs:

- Corporate Wellness Programs: AI-driven health tracking for employees to improve workplace wellness.

Medical Reminders for Patients:

- Ensuring timely medication and health checkups.
- Smart Office Assistance: Automating meeting schedules, document creation, and voice-controlled tasks.
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AI-Guided Fitness Coaching

- Personalized AI-generated workout plans and progress tracking.

Business Market Value

TARGET AUDIENCE:

Corporate professionals, healthcare providers, and tech-driven organizations.

- Revenue Model
- B2B Licensing: SaaS-based subscription for enterprises.
- Freemium Model: Basic AI reminders for free, premium features for subscription.
- Partnerships: Collaboration with healthcare providers and HR tech companies

MARKET SIZE & GROWTH:

- AI in Healthcare Market: Estimated to reach $67.4 billion by 2027.
- AI in Workplace Automation: Projected to grow at a CAGR of 22.5%.
- Target Audience: Corporate professionals, healthcare providers, and tech-driven organizations.

Competitor Analysis

- BM Watson Health: Advanced AI solutions but primarily focused on clinical data analysis rather than personal reminders.
- Google Health AI: Strong in data analytics but lacks integration with workplace automation.
- Microsoft Cortana & AI Assistants: Offers general AI assistance but lacks deep health-focused capabilities.
- Startups in AI Wellness Tech: Many startups focus on AI health tracking but lack enterprise-scale automation solutions.

How AIstronauts Stands Out

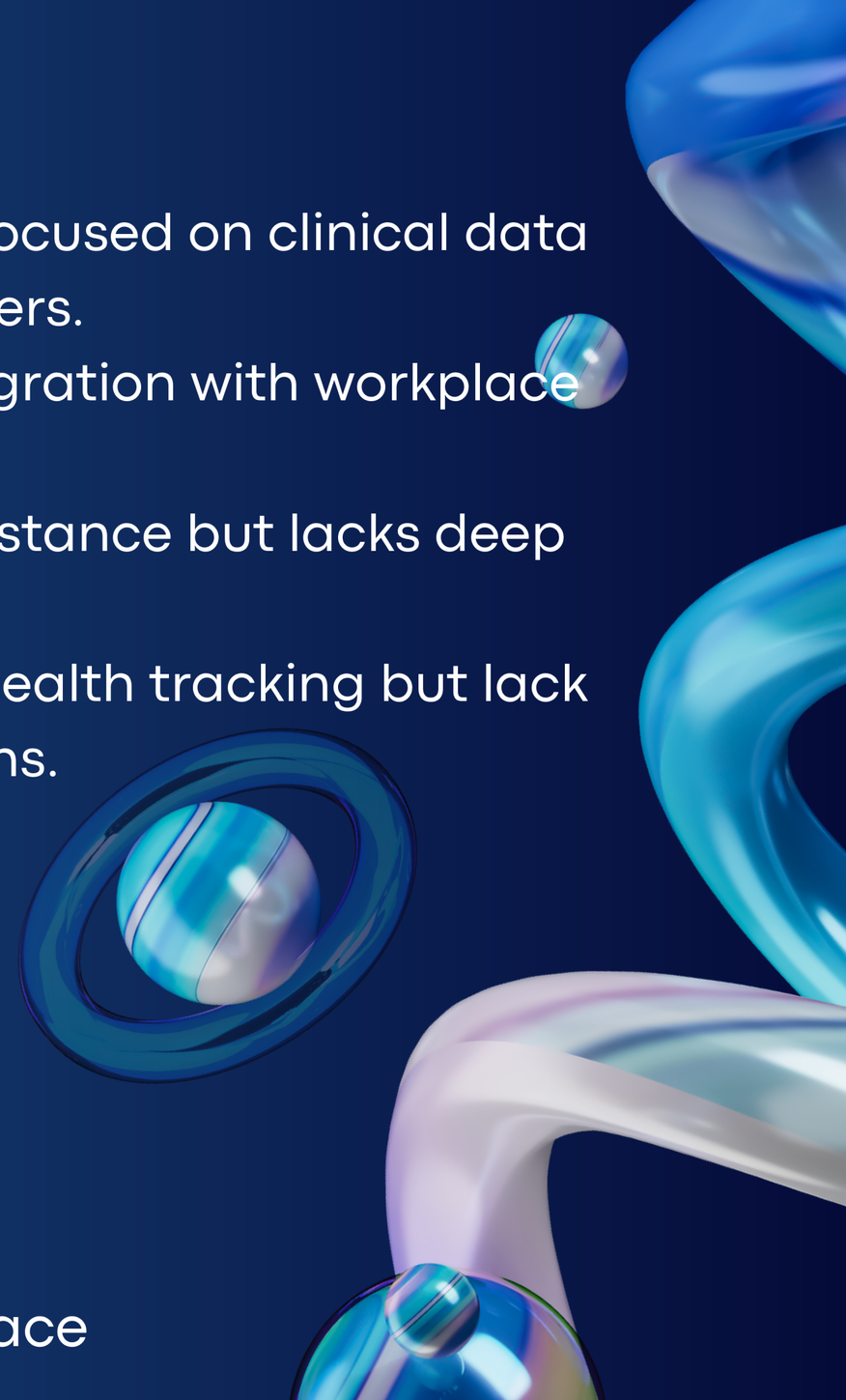
End-to-End Solution

Cost-Effective

AI-Driven

Scalable and Modular

User-Friendly Interface



Future Vision

Phase 1: MVP Development & Beta Testing.
Phase 2: AI Enhancement with Deep Learning Algorithms.
Phase 3: Expansion into Global Markets **& Enterprise Adoption.**
Phase 4: Integrating AI Wearables & IoT Devices.
Phase 5: AI-driven game instructions using facial recognition technology.

AI NInjas Team

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THANK YOU!

AI NInjas

GitHub

Live Project

LabLab.ai team