

# **MediConnect: AI-Driven Automation with IoT and Blockchain for Healthcare Connectivity**

## **Team NetWizards Presents**

Enhancing connectivity and enabling secure, real-time data exchange, we aim to support health institutes in delivering efficient and reliable services.



# Problem Statement

### Data Ownership and Access:

Patients do not have seamless, secure control over their medical records, creating barriers in sharing data with providers, insurers, or researchers.

## Security Vulnerabilities:

Patients do not have seamless, secure control over their medical records, creating barriers in sharing data with providers, insurers, or researchers.

### Lack of Real-Time Insights:

Healthcare professionals face challenges in analyzing and interpreting patient data quickly and accurately..

## Fragmented Ecosystem:

The absence of an integrated, transparent system for medical data management leads to inefficiencies and poor patient outcomes.



# Our Vision

## **Empowering Patients:**

Allowing individuals to manage and share their data securely, putting their healthcare journey in their own hands.

## **Enabling Real-Time Decision-Making:**

Providing healthcare providers with AI-driven insights for timely and effective care.

## **Ensures Unmatched Security:**

Leveraging tamper-proof blockchain systems to protect sensitive information and foster trust.



# Technology Stack

## Blockchain:

- Framework: Ethereum or Hyperledger
- Purpose: Smart contract implementation for secure, transparent, and immutable data access controls.
- Consensus Mechanism: Proof of Stake (PoS) for energy efficiency.

## IPFS (InterPlanetary File System):

- Purpose: Decentralized storage of medical records, ensuring data integrity, availability, and resistance to tampering.

## Artificial Intelligence

- Platform: OpenAI
- Purpose: AI-driven data analysis to generate concise summaries of medical reports, highlight key changes, and provide actionable insights for healthcare professionals.
- Models Used: NLP models for report generation and summarization.



# Why Choose Us?

1. Unparalleled Data Security
2. Patient Empowerment
3. AI-Driven Insights
4. Seamless Accessibility
5. Cutting-Edge Technology Integration
6. Innovation Meets Usability
7. Commitment to Privacy



# Future Scope

## 1. Global Interoperability:

- Creating a universal medical record standard that facilitates consistent and efficient data exchange.

## 2. Personalized Medicine:

- Leveraging AI to provide tailored insights based on patient-specific data.

## 3. Enhanced Research Capabilities:

- Collaborating with researchers to securely and anonymously access to aggregated data

## 4. IoT and Wearable Integration

- Providing actionable insights to both patients and healthcare providers for timely interventions.

## 5. Scalability for Future Demands:

- Adapting to the needs of diverse healthcare systems and expanding support for new use cases.



# OUR TEAM



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