# UNRAVEL

## **Team Members**

AARAV NIGAM AKASH KULKARNI HARSHIT CHAUHAN POORV KUMAR



## TABLE OF CONTENT

- 1. Problem Hypothesis
- 2. Solution
- 3. Buisness Model Canvas

- 4. Architecture
- & Tech Stack
- 5. WorkFlow
- 6. Our Team

# PROBLEM HYPOTHESIS

We believe that the common Indian person experiences difficulty in understanding policy details because of the complex platforms, terms, and language





### **Problem 1**

Everyone fears that the companies manipulate data of policies to show high settlement ratio, as well as to avoid giving claims because of Lack of Transparency



### **Problem 2**

Also, Most feel troubled while searching for a good policy catering to their personal needs because of too many complex choices.



### **Problem 3**

The problem my customer faces is Complex language,
Lack of Transparency and not having a highly accurate policy suggester.

The customer faces this problem because there is no platform in the market which is using Blockchain for transparency, NLP model for chatting and ML model for accurate predicting to find the best policy for you.

# SOLUTION

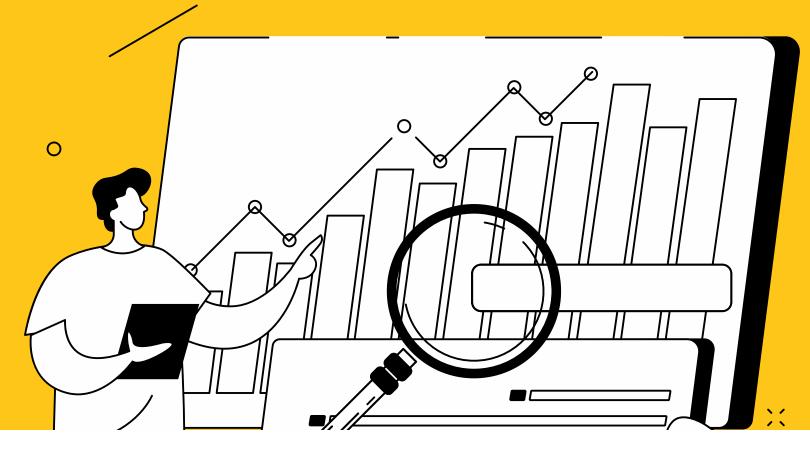
Combine healthcare, payer, and insurance services in a user-friendly app/website. Provide access to medical records, share documents for insurance claims, and communicate with providers seamlessly. Utilize ML for premium prediction, NLP for a better user experience, and Blockchain for transparency.



## **Solution at Payer End**

- Provide them with a chatbot like GPT to ask doubts and help in claim settlement
- Use ML predictions to provide best personalized policies
- Put policies and records in Blockchain for transparency and trust
- Provide complete environment with all facilities like OAuth, Payment Gateway etc.





### **Solution at Provider End**

- Provide ML predictions to Insurance
   Providers so that they can provide
   better services and accurate policies
- Provide necessary documents to facilitate the claim settlement.
- Provide a Natural Language Processing Model(GPT-like) to extract health data from User prescription

## BUSINESS MODEL CANVAS

#### **Key Partners**

#### **Healthcare Networks:**

Partnerships with hospitals and clinics for integrated care.

#### **Insurance Networks:**

Alliances with insurance providers for a wide range of services.

#### **Technology Providers:**

Collaborations with tech companies for advanced features.

#### Healthcare Networks

- Hospitals
- Clinics
- Pharmacy

Insurance Networks

- Banks
- Insurance Companies ML model

#### Key **Activities**

Platform Development: Continuous improvement of the app and website functionalities.

Marketing: Promoting the platform to target customer segments.

Customer Service: Providing topnotch support and assistance to users.

related designs and ensure customer Insurance claim resolution as soon as possible

#### **Key Resources**

Technology Infrastructure: Robust servers and security systems to handle sensitive data.

Partnerships: Collaborations with healthcare providers and insurance companies.

Expert Team: A skilled team of developers, customer service reps, and healthcare professionals.

#### · Robust servers and security systems

- Industry connections
- Expert Team

#### **Cost Structure**

**Development Costs:** Expenses related to app and website development. Operational Costs: Day-to-day expenses of running the platform.

Marketing Costs: Investment in advertising campaigns and

Promotional Activities: such as awareness drives

Content Creation: Investment in high quality blogs, short movies to promote our products.



#### Value

#### **Proposition**

The **primary need addressed** is the complexity and inconvenience faced by individuals when managing their healthcare and insurance requirements.

- Streamlined communication: Direct communication channels with healthcare providers and insurance companies.
- One-stop solution: Users can manage their healthcare and insurance needs in one place.
- Fair Premium Prediction: Leverage our ML model for unbiased insurance premium assessments, ensuring equitable rates for clients, insurers, and healthcare providers.
- Direct Savings : Eliminate middleman fees and hidden charges by using our direct insurance policy purchasing platform.

#### Ease of access:

Simplified access to personal medical records and insurance policies.

Official website Mobile App **Customer Support** 

#### **Revenue Streams**

Subscription Fees: Monthly or annual fees for premium features.

**Commission:** A percentage fee from insurance companies for each policy sold. **Service Fees:** Charges for additional services like expedited claim processing.

Printable sales through social

Affiliate marketing commissions from healthcare-related businesses

#### Customer

#### Relationships

Personalized Experience: Customized user profiles with tailored

healthcare and insurance options. **Community Engagement:** 

Forums and support groups for users to share experiences and advice.

#### Feedback System:

Regular surveys and feedback channels to improve services.

Forums to share experiences and regular surveys for feedback.

#### **Channels**

#### Website:

A comprehensive portal to manage healthcare and insurance needs.

#### Mobile App:

A user-friendly app for patients to access services on-the-go.

#### **Customer Support:**

Dedicated support for assistance and inquiries.

### **Patients:**

**Customer Segments** 

Individuals seeking easy access to healthcare services and insurance.

#### **Healthcare Providers:**

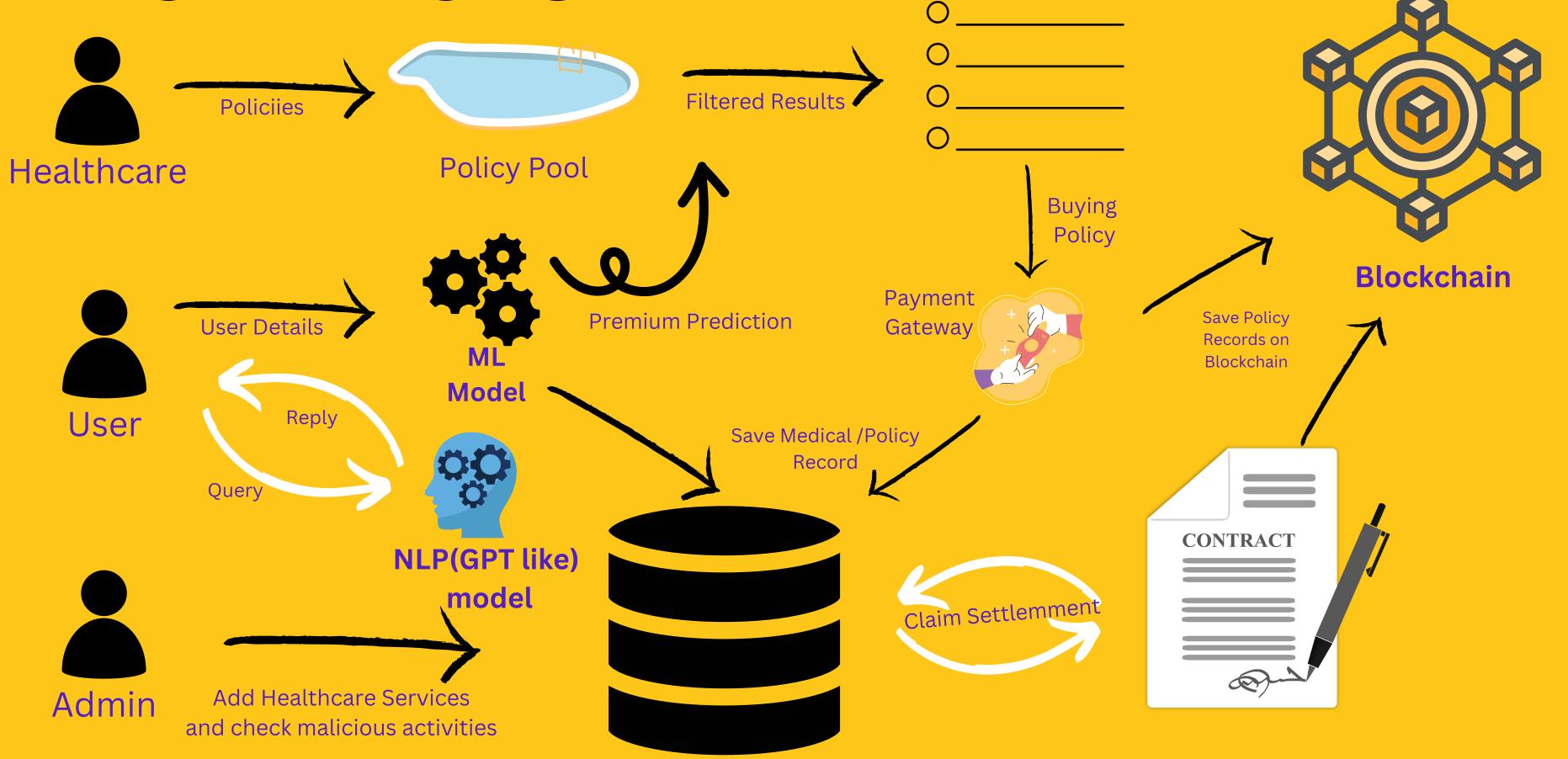
Hospitals and clinics looking to streamline patient care and insurance processing.

#### **Insurance Companies:**

Insurance providers aiming to offer better customer service and efficient claim processing.

Healthcare Providers Insurance Companies

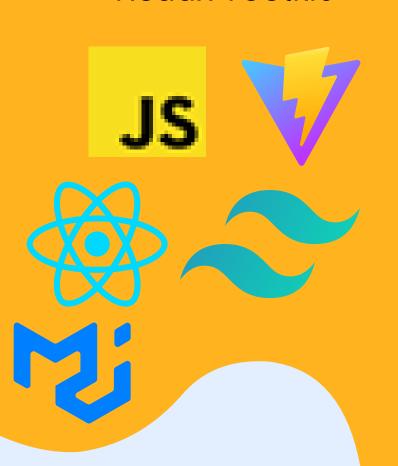
# ARCHITECTURE



# TECH STACK

## FRONTEND BACKEND ML/NLP BLOCKCHAIN

- React + Vite Setup
- Tailwind CSS
- Material UI
- Redux Toolkit



- Node.js
- Express.js
- MongoDB
- Redis
- AWS
- Google Cloud
- Firebase





- FastAPI
- Pandas
- Seaborn







- Ethereum
- Metamask
- Hardhat

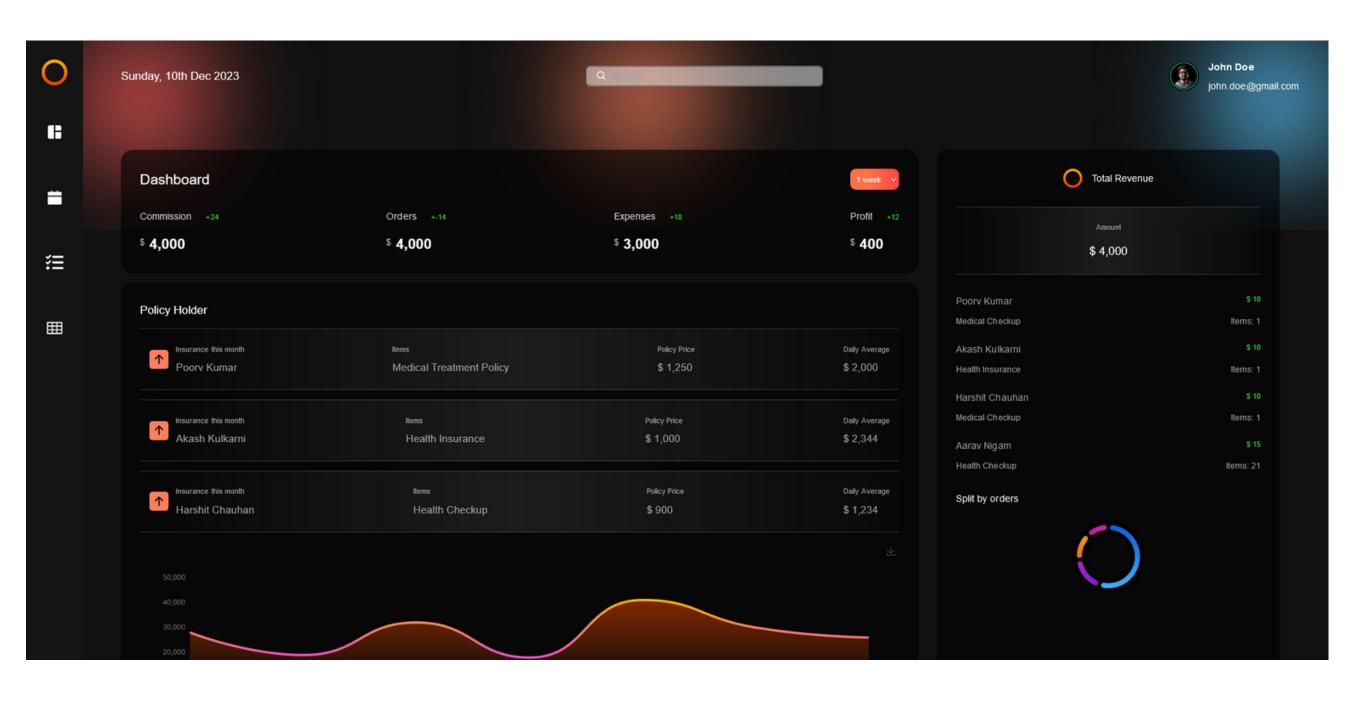


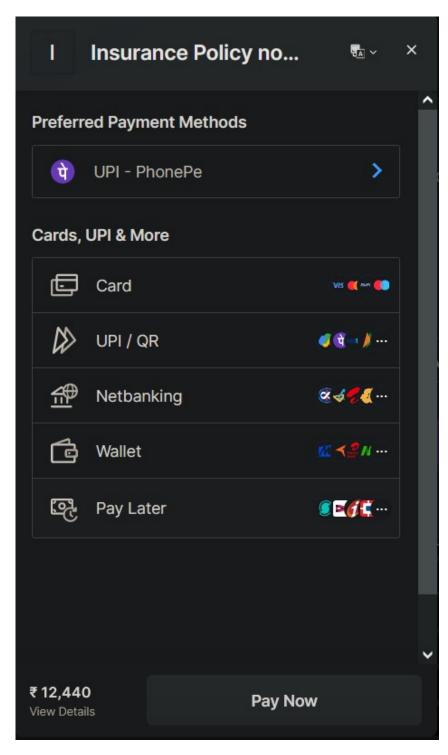




# DASHBOARD

# PAYMENT





## **LOGIN**

## **SIGNUP**



### 8

### Login to your account

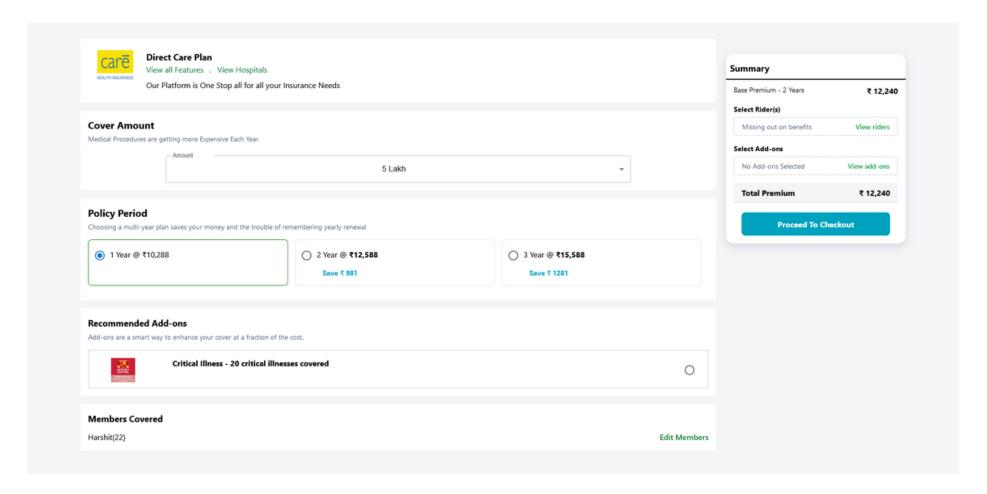
Don't have an account yet? Signup

Password	
Remember me	Forgot your password?

### Signup to create an account

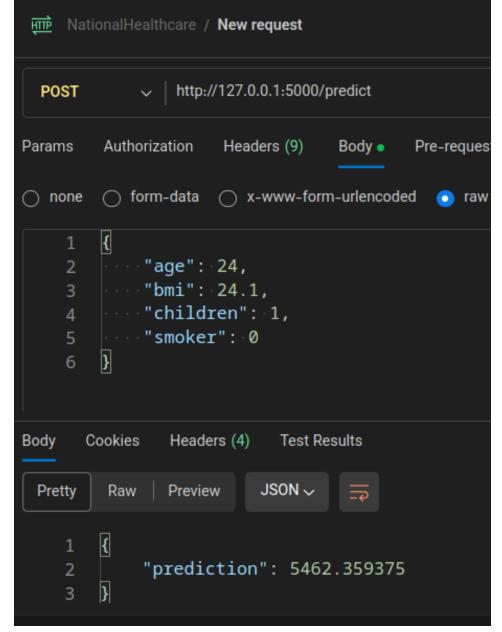
Already have an account? Login Username Email address Age Height(in meters) Weight(in KG) number Of children Are you a smoker Password Confirm Password Signup

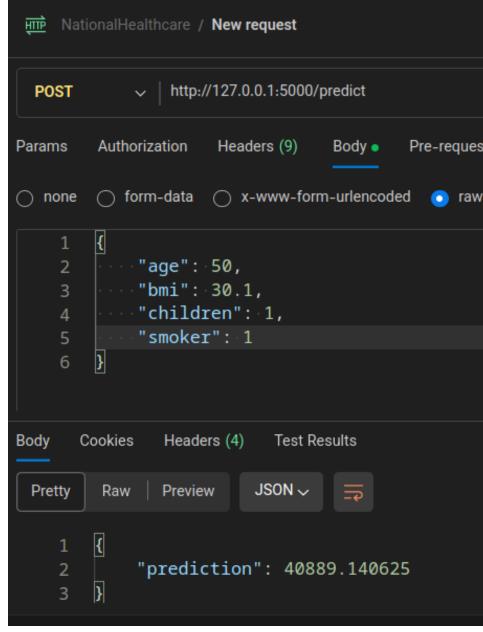
## **POLICY DETAILS**

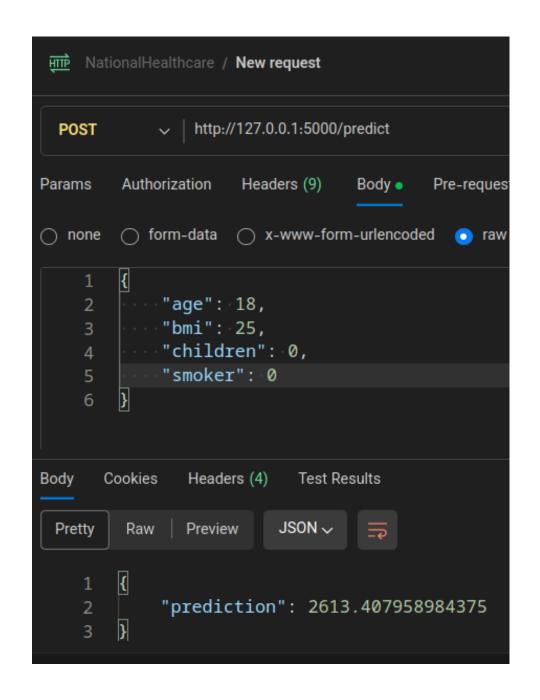


# MACHINE LEARNING

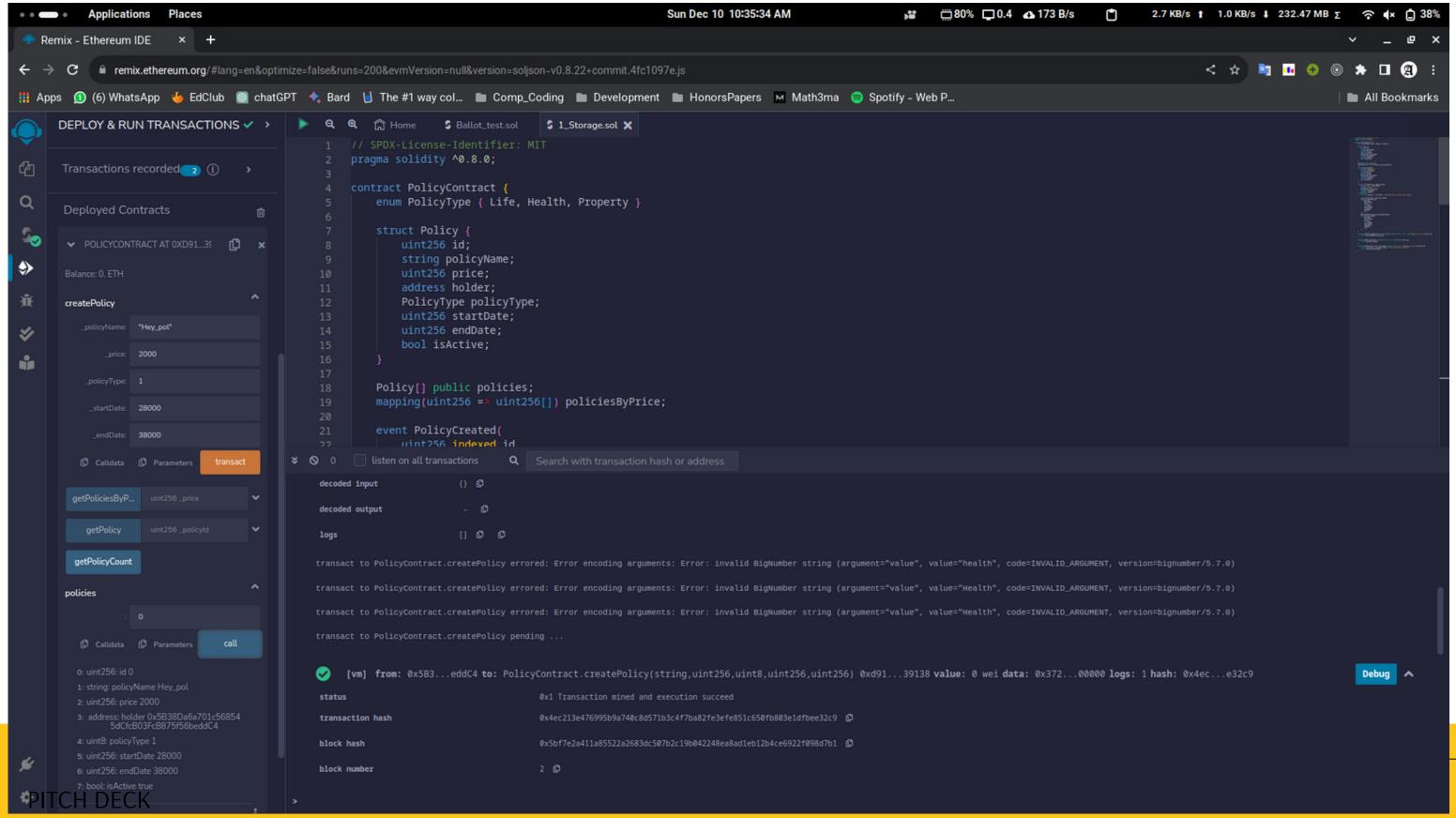
**PREDICTIONS** 



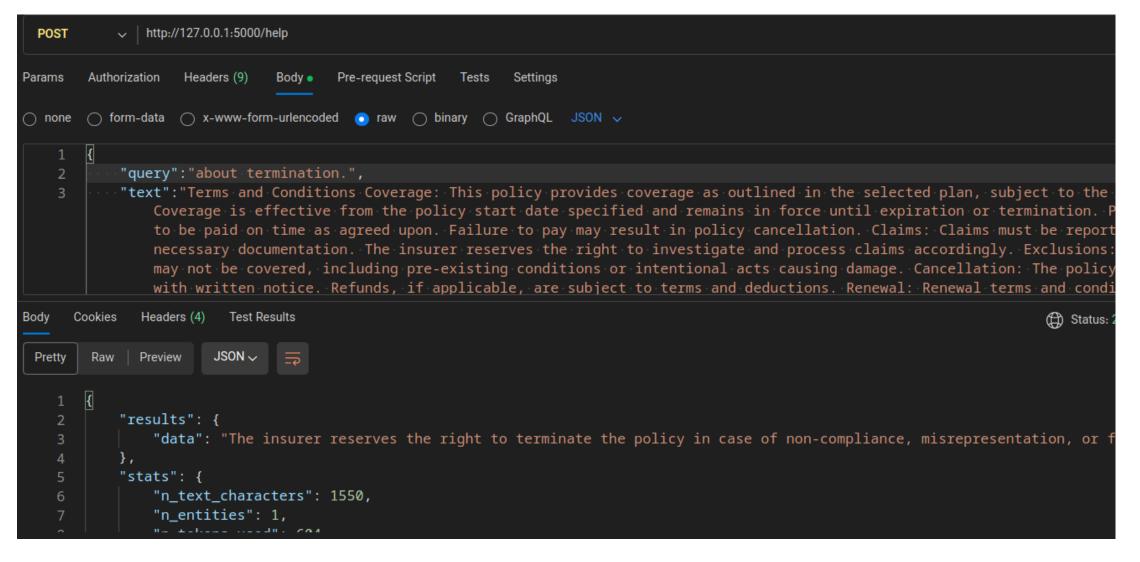




# BLOCKCHAIN



# NATURAL LANGUAGE PROCESSING(LIKE CHATGPT)



```
http://127.0.0.1:5000/extract
                                                                          Send
POST
ody • 🗸
                                                                        Code Cookies
none ( ) form-data ( ) x-www-form-urlencoded ( ) raw ( ) binary ( ) GraphQL
          "text": "I am sufffering from A-type Diabetes and High BP
               problems with red rashes and pain in joints"
                                    (A) Status: 200 OK Time: 1713 ms Size: 291 B ....
      Raw Preview
          "results": {
               "diseases": [
                   "A-type Diabetes",
                    "High BP"
               "problems": [
                    "red rashes",
                    "pain in joints"
```

## OUR TEAM

### Aarav Nigam

Akash Kulkarni

### **Harshit Chauhan**

### **Poorv Kumar**

# TEAM LEADER AI/ML EXPERT BLOCKCHAIN DEV

- 1. Structure the use cases
- 2. Develop the ML model with best Accuracy
- 3. Create a Natural
  Language Processing
  Model to extract
  important terms from
  user's description
- 4. Create a **Blockchain app** to record all
  policy data

## FRONTEND DEVELOPER UI/UX DESIGNER

- 1. Design the UI for both the App and Web page for a good user experience
- 2. Create the **frontend** website using **REACT**
- 3. Integrating websites with backend APIs for a smooth experience

## BACKEND DEVELOPER DOMAIN EXPERT

- 1. Develop a multifunctional and
  scalable server to
  handle a large amount
  of users
- 2. Create **functional and fast APIs** to provide a
  seamless experience
- 3. Provide Domain
  Knowledge about the
  Problem Statement.

- FRONTEND DEV(WEB + APP)
  BACKEND DEVELOPER
  - 1. Develop the App
    using React native to
    provide facilities to
    more users
  - 2. **Integrate** and adjust **APIs** for better functionality.
  - 3. Make the App smooth for a **smooth User Experience**.

THANKS FOR GIVING US THIS **OPPORTUINITY!!!** 

