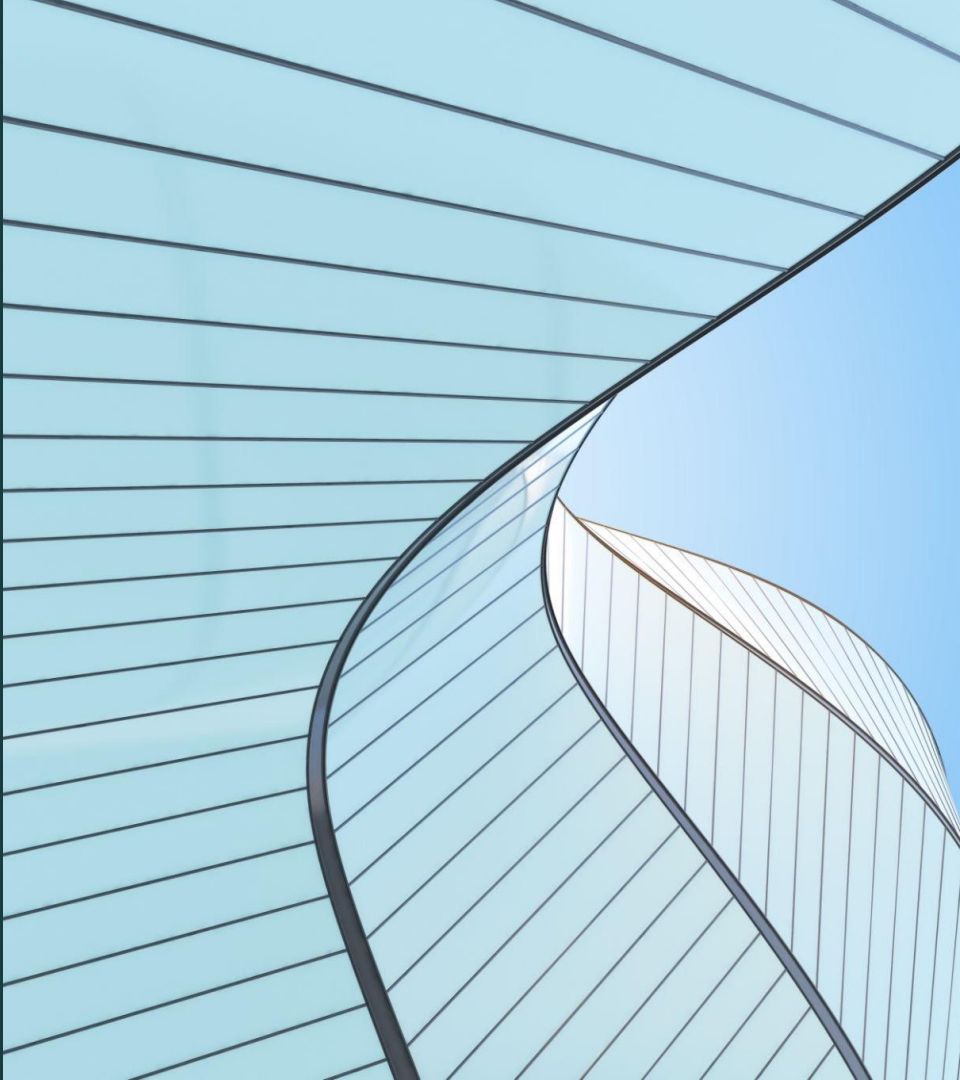


Team Data Dawgs
10/25/2025

SymptomAI

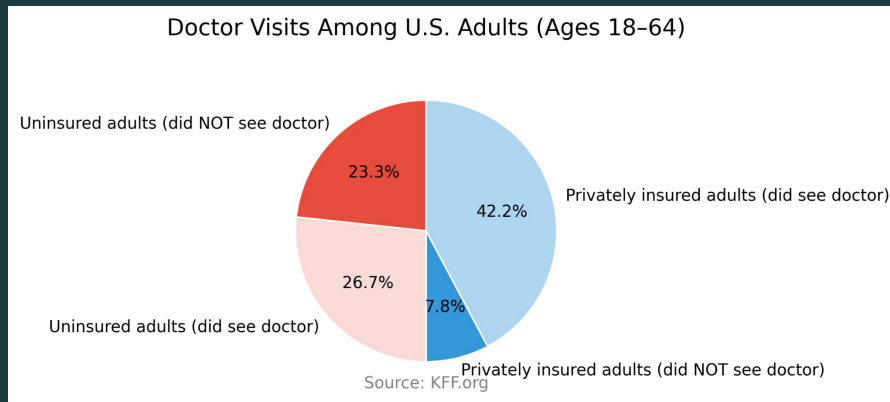
*Smart predictions for your
health.*

Wilson Zheng, Joshua Robins, Jibek Kelgenbaeva,
Dhiraj Patel, Arush Vyas



The Problem

- People often experience symptoms but are unsure if they're serious
- Searching online can lead to misinformation
- Millions around the world lack affordable or timely access to healthcare
 - Rising medical costs
- Preliminary, clinical data-backed insights
 - explain possible next steps



In the U.S., among the uninsured adults ages 18-64, **46.6% reported not seeing a doctor or health professional in the past 12 months**, compared with ~15.6% of those with private insurance. ([kff.org](https://www.kff.org))

Our Solution

Symptom Checker

Select your symptoms to receive potential condition matches

headache ×

nausea ×

arm pain ×

Selected Symptoms:

3

× Clear All

Analyze Symptoms →

- **Easy Symptom Selection:** Users select their symptoms from an intuitive list to receive instant insights.
- **Fast & Accurate:** Our AI model analyzes patterns across hundreds of thousands of medical cases to identify the most likely diseases.
- **Bridging the Gap:** Helps uninsured or underserved individuals understand when to seek medical attention.
- **Empowering Users:** Not a replacement for doctors—just a tool that provides clarity, confidence, and early awareness.

The Approach

Dataset: Disease-Symptom (Kaggle)

We evaluated three different models to obtain the most optimal model among Neural Network, Logistic Regression, and XGBoost.

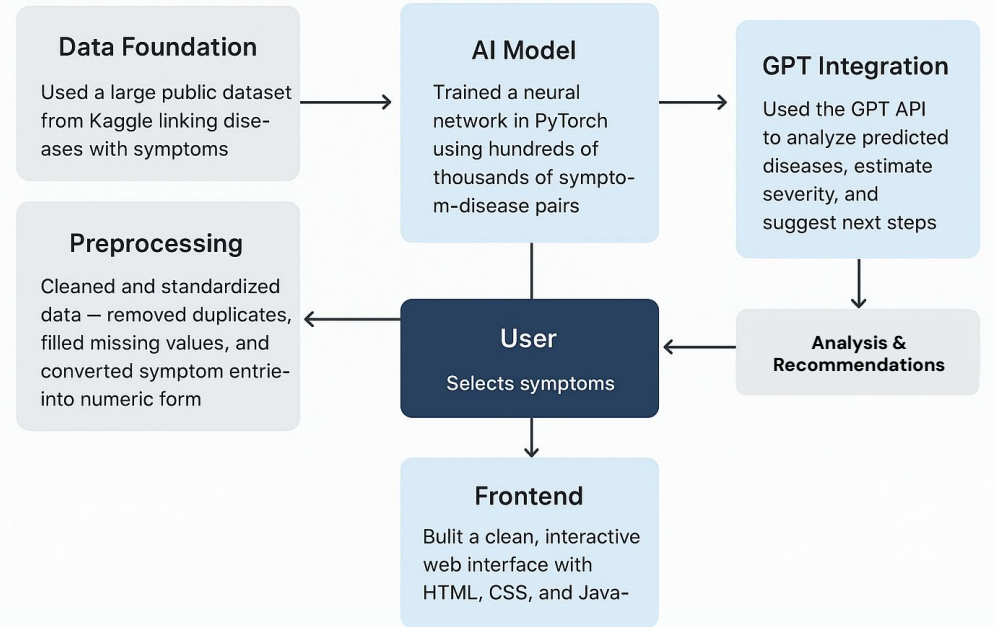
Final Model: Neural Network

Neural Network achieved the best EDA at 82% accuracy, F1-score at 0.83, Precision at 0.90.

One shot classification: Ranking severity of disease

We implemented a one shot classification model allowing us to inform users of the severity case of their illness.

How It Works (Behind the Scenes)



Thank you

Thank you for your questions and feedback.