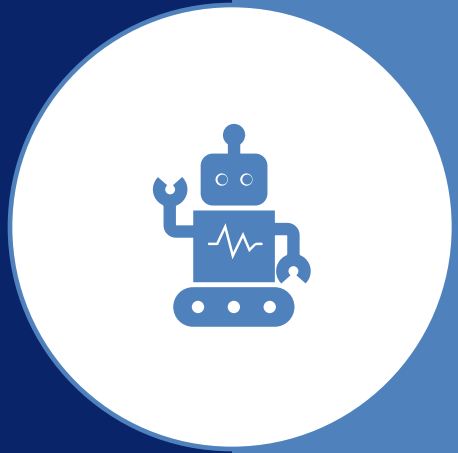
IBM SkillsBuild Intership Program 2026

- *ClimateHealth AI (SDG-13: Climate Change)*

- *Name: Raj Thakkar*



Sustainable Development Goal (SDG-13):Climate change
Problem Statements

- Climate change is increasing health risks:
- Heat-related illnesses
- Vector-borne diseases (malaria, dengue)
- Respiratory problems

- Populations are vulnerable due to:
- Limited real-time monitoring
- Gaps in healthcare infrastructure
- How awareness of climate-health linkages

Significance of the Problem

- Climate change threatens human health globally.
- Health shocks reduce productivity & increase healthcare burden.
- Current systems are reactive, not preventive.
- No large-scale, climate-aware health monitoring exists yet.

Proposed Solution(AI-powered)

Predicts disease & heatwave risks using weather + health data

Sends personalized health alerts via SMS, apps & kiosks

Assists healthcare workers with AI-driven decision support

Unique Value Proposition

- Designed for climate-vulnerable populations
- Works in low-resource & low-literacy settings
- Combines localized climate predictions with health insights
- Builds trust through health workers & public agencies
- Scalable, affordable, and actionable

Impact of the Solution

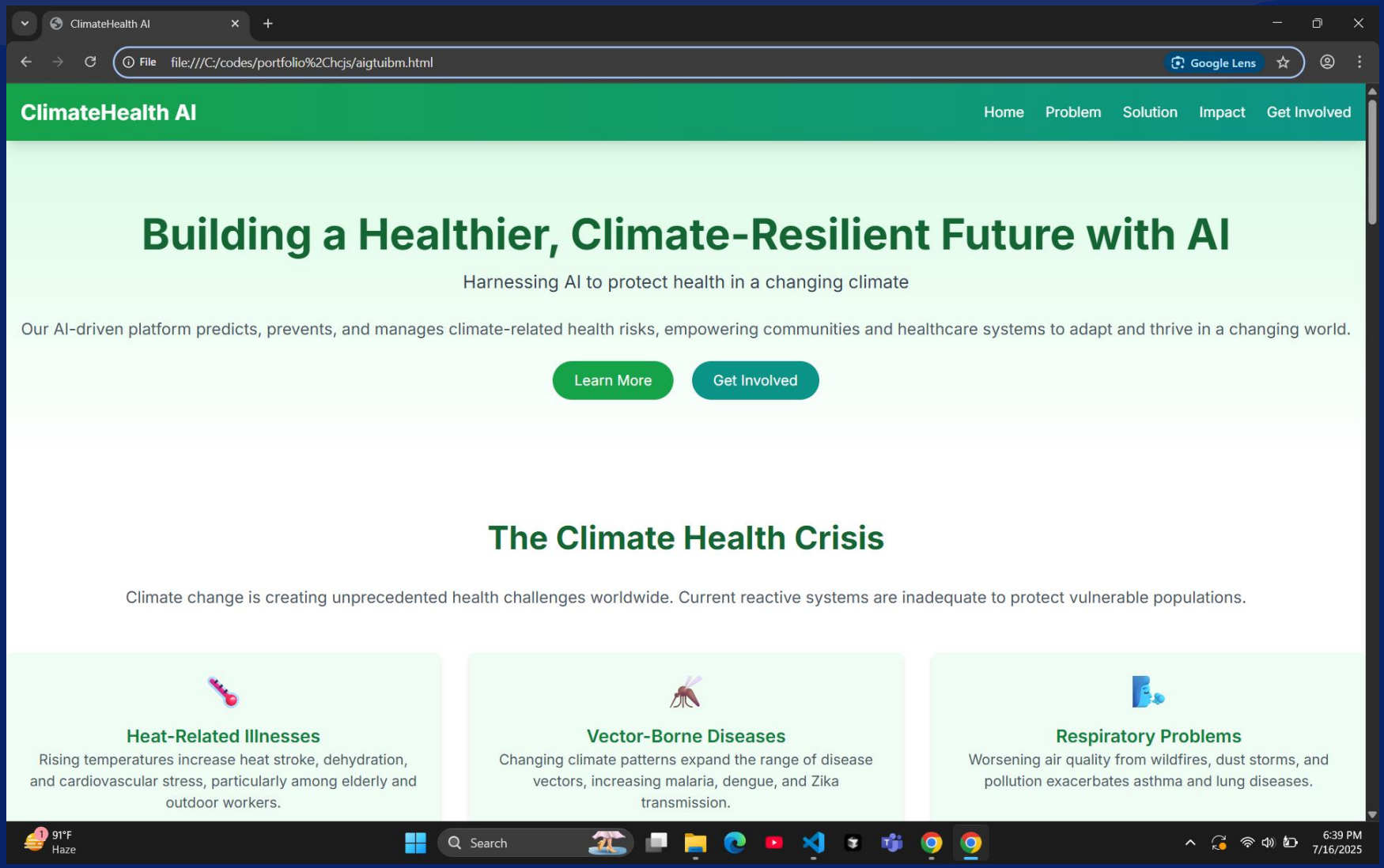
- Direct Impacts:
- Timely prevention of heat & disease emergencies.
- Reduces hospital visits & mortality.
- Improves efficiency of healthcare delivery.

- Broader Impacts:
- Supports SDG-13 by building climate resilience in health.
- Reduces economic loss from health shocks.
- Enables data-driven policy decisions.

How It Works

- AI processes climate & health data.
- Predictive alerts sent to individuals & healthcare workers.
- Workers use decision-support tools.
- Data aggregated for dashboards.

Prototype


ClimateHealth AI
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Google Lens
ClimateHealth AI
Home
Problem
Solution
Impact
Get Involved
Building a Healthier, Climate-Resilient Future with AI
Harnessing AI to protect health in a changing climate
Our AI-driven platform predicts, prevents, and manages climate-related health risks, empowering communities and healthcare systems to adapt and thrive in a changing world.
Learn More
Get Involved
The Climate Health Crisis
Climate change is creating unprecedented health challenges worldwide. Current reactive systems are inadequate to protect vulnerable populations.
Heat-Related Illnesses
Rising temperatures increase heat stroke, dehydration, and cardiovascular stress, particularly among elderly and outdoor workers.
Vector-Borne Diseases
Changing climate patterns expand the range of disease vectors, increasing malaria, dengue, and Zika transmission.
Respiratory Problems
Worsening air quality from wildfires, dust storms, and pollution exacerbates asthma and lung diseases.
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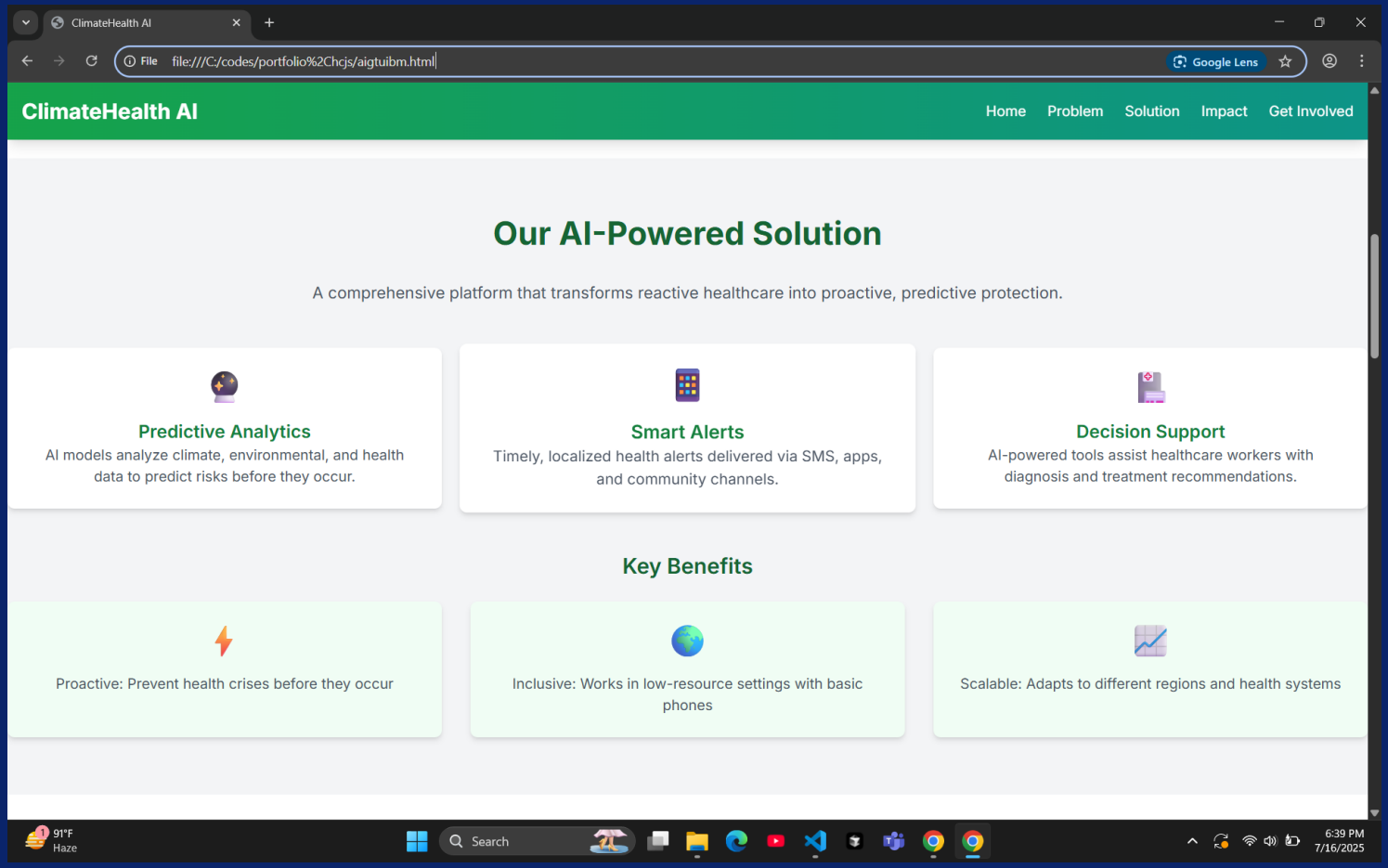
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Our AI-Powered Solution
A comprehensive platform that transforms reactive healthcare into proactive, predictive protection.
Predictive Analytics
AI models analyze climate, environmental, and health data to predict risks before they occur.
Smart Alerts
Timely, localized health alerts delivered via SMS, apps, and community channels.
Decision Support
AI-powered tools assist healthcare workers with diagnosis and treatment recommendations.
Key Benefits
Proactive: Prevent health crises before they occur
Inclusive: Works in low-resource settings with basic phones
Scalable: Adapts to different regions and health systems
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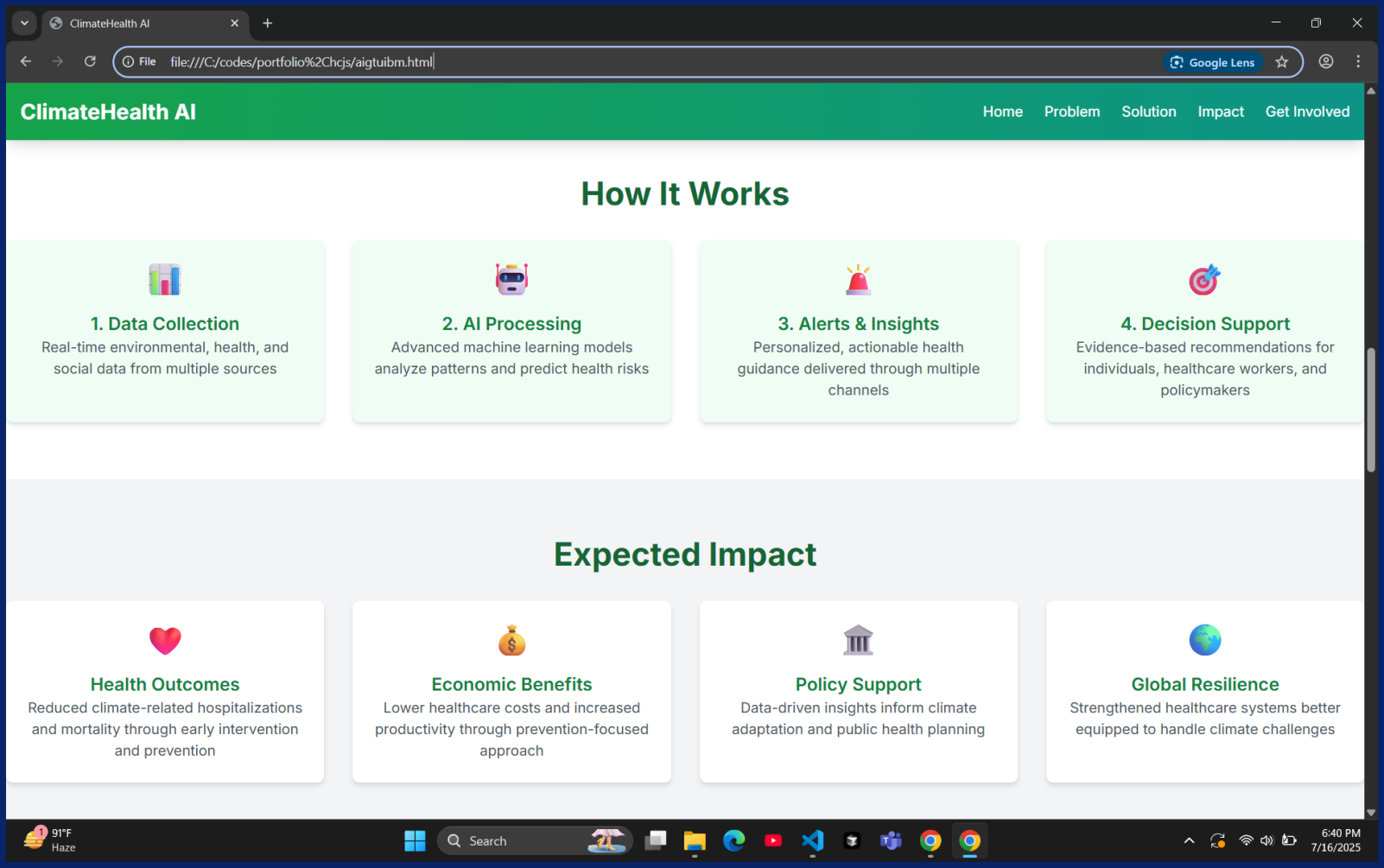
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Google Lens
ClimateHealth AI
Home Problem Solution Impact Get Involved
How It Works
1. Data Collection
Real-time environmental, health, and social data from multiple sources
2. AI Processing
Advanced machine learning models analyze patterns and predict health risks
3. Alerts & Insights
Personalized, actionable health guidance delivered through multiple channels
4. Decision Support
Evidence-based recommendations for individuals, healthcare workers, and policymakers
Expected Impact
Health Outcomes
Reduced climate-related hospitalizations and mortality through early intervention and prevention
Economic Benefits
Lower healthcare costs and increased productivity through prevention-focused approach
Policy Support
Data-driven insights inform climate adaptation and public health planning
Global Resilience
Strengthened healthcare systems better equipped to handle climate challenges
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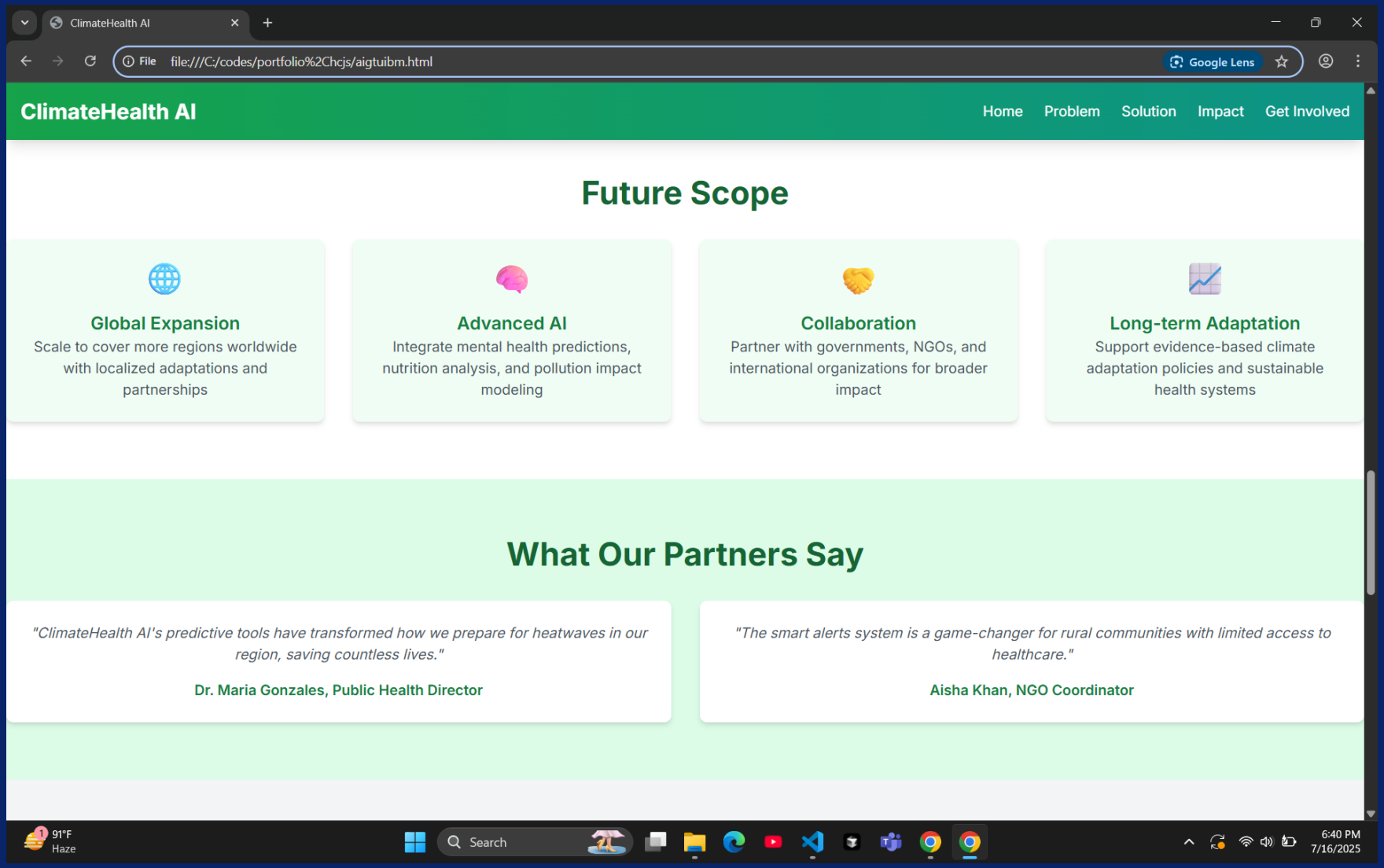
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Future Scope
Global Expansion
Scale to cover more regions worldwide with localized adaptations and partnerships
Advanced AI
Integrate mental health predictions, nutrition analysis, and pollution impact modeling
Collaboration
Partner with governments, NGOs, and international organizations for broader impact
Long-term Adaptation
Support evidence-based climate adaptation policies and sustainable health systems
What Our Partners Say
"ClimateHealth AI's predictive tools have transformed how we prepare for heatwaves in our region, saving countless lives."
Dr. Maria Gonzales, Public Health Director
"The smart alerts system is a game-changer for rural communities with limited access to healthcare."
Aisha Khan, NGO Coordinator
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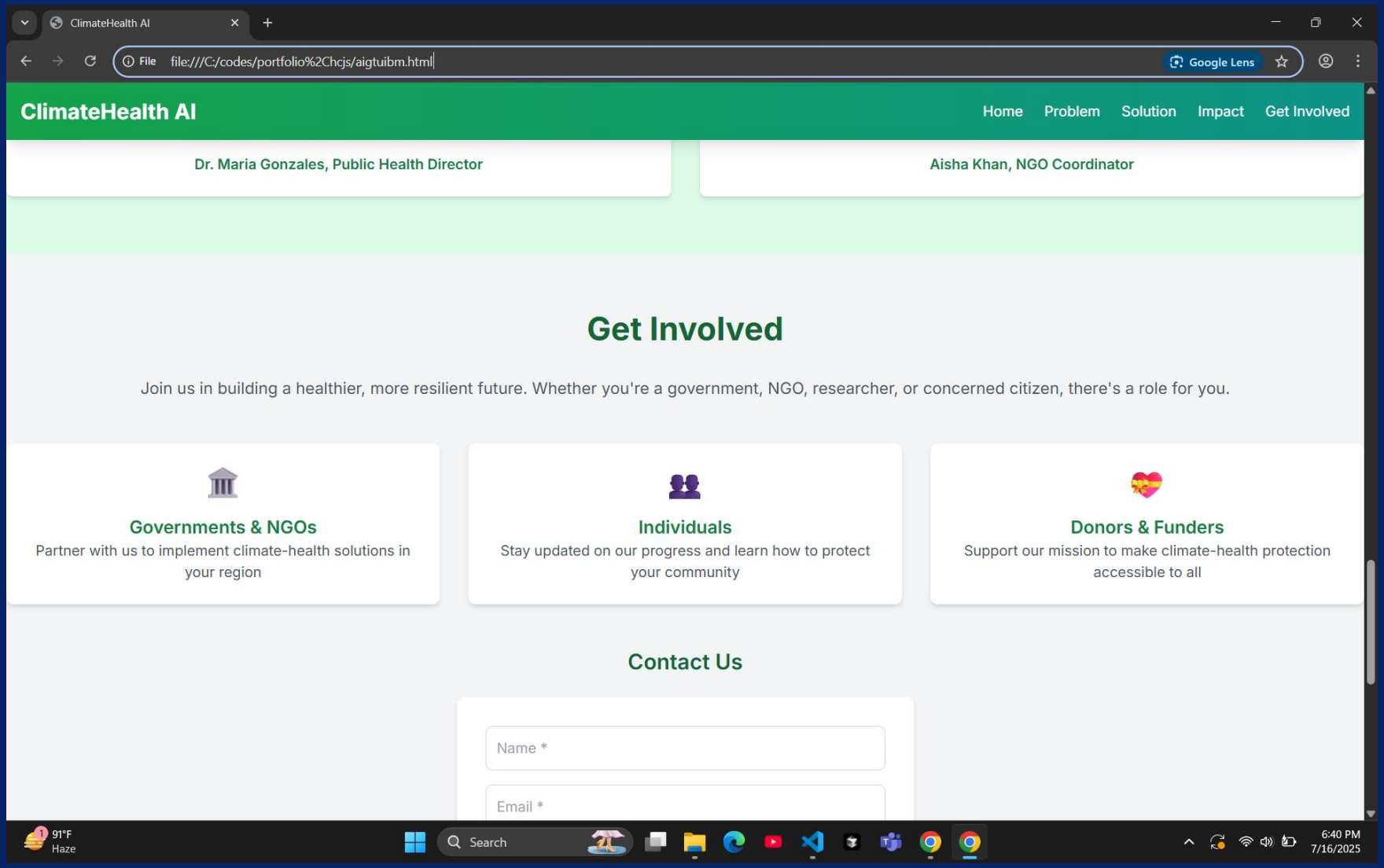
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Get Involved
Dr. Maria Gonzales, Public Health Director
Aisha Khan, NGO Coordinator
Get Involved
Join us in building a healthier, more resilient future. Whether you're a government, NGO, researcher, or concerned citizen, there's a role for you.
Governments & NGOs
Partner with us to implement climate-health solutions in your region
Individuals
Stay updated on our progress and learn how to protect your community
Donors & Funders
Support our mission to make climate-health protection accessible to all
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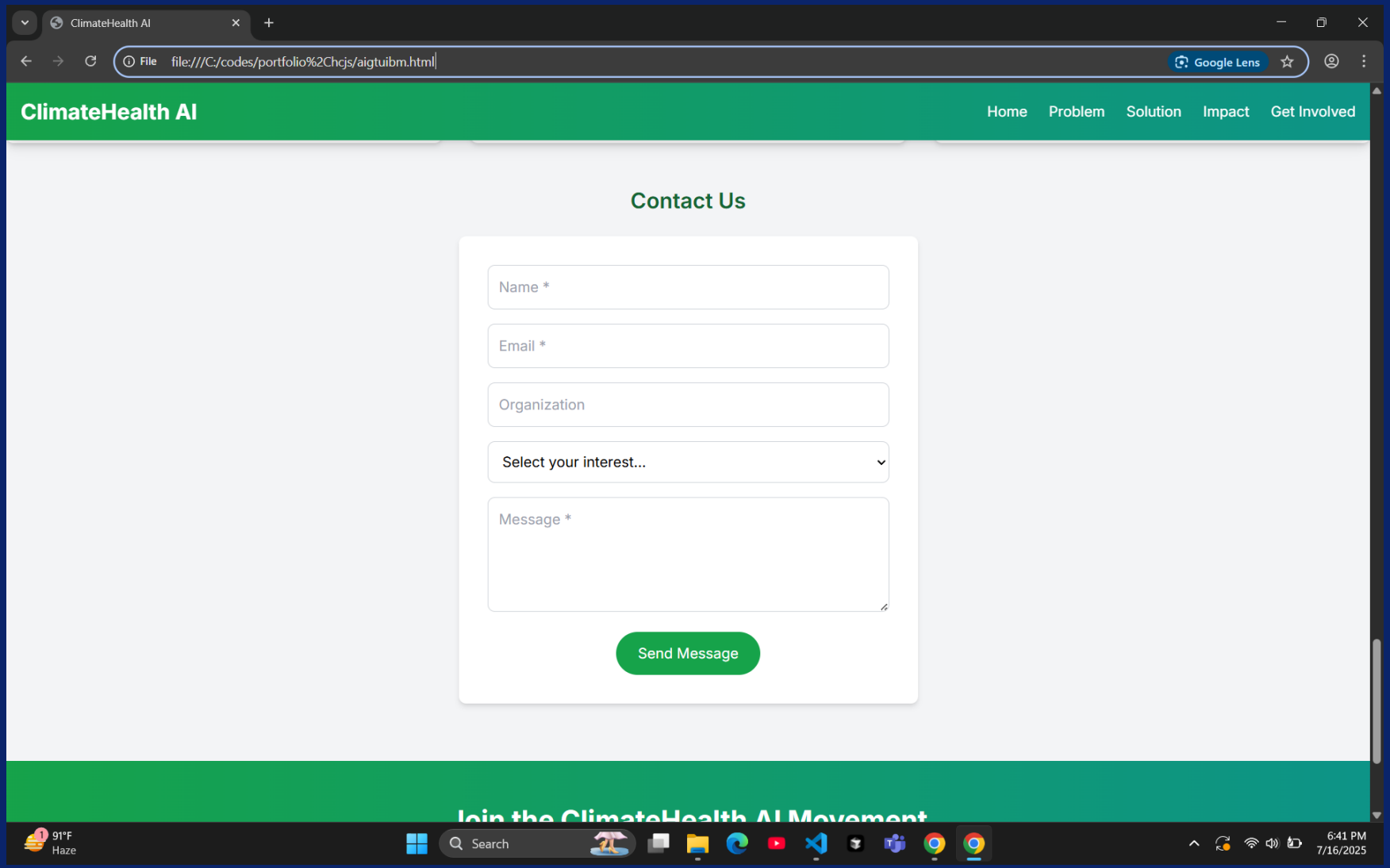
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Get Involved
Contact Us
Name *
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Organization
Select your interest...
Message *
Send Message
Join the ClimateHealth AI Movement
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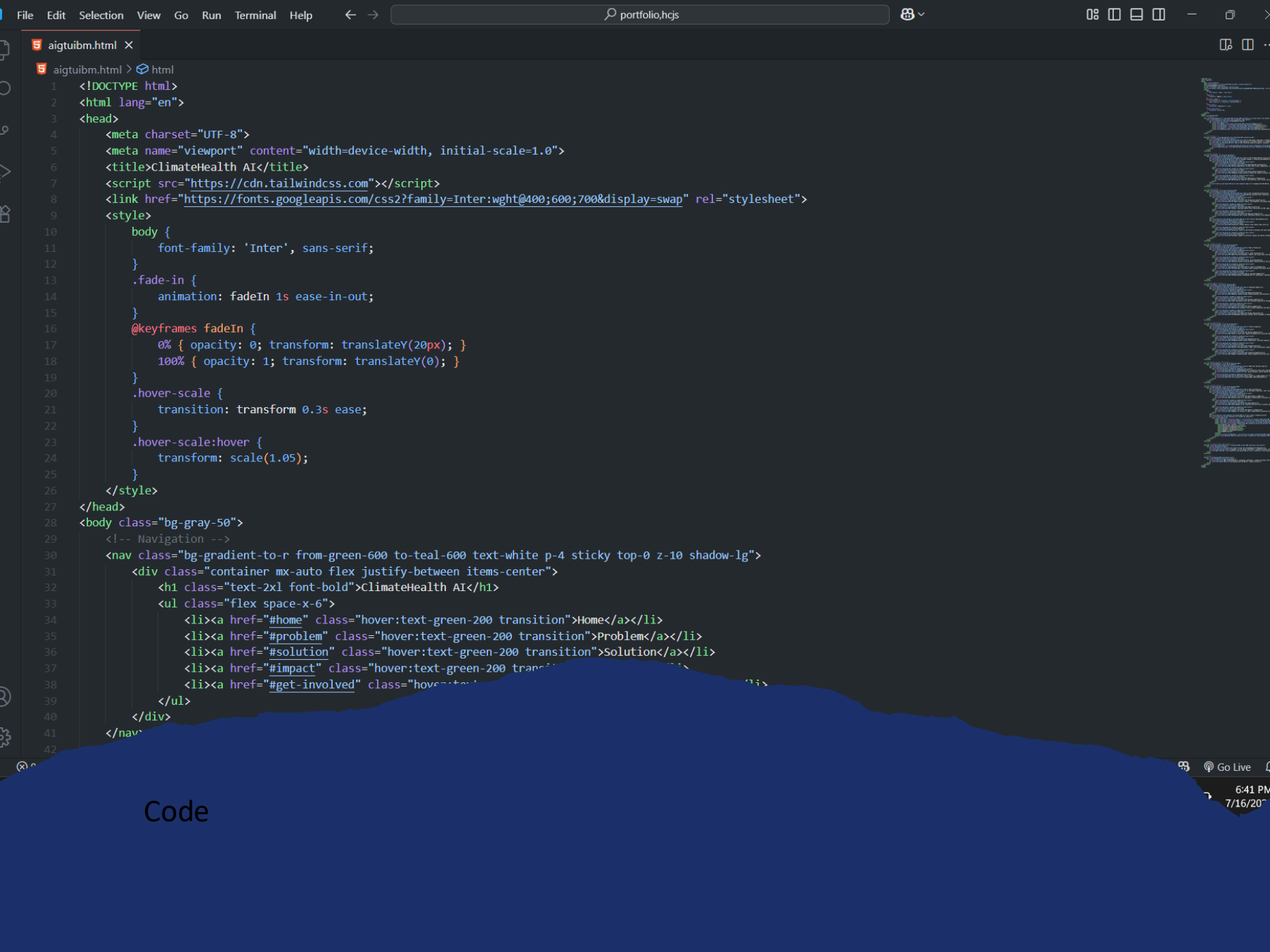
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aigtuibm.html > html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>ClimateHealth AI</title>
<script src="https://cdn.tailwindcss.com"></script>
<link href="https://fonts.googleapis.com/css2?family=Inter:wght@400;600;700&display=swap" rel="stylesheet">
<style>
body {
font-family: 'Inter', sans-serif;
}
.fade-in {
animation: fadeIn 1s ease-in-out;
}
@keyframes fadeIn {
0% { opacity: 0; transform: translateY(20px); }
100% { opacity: 1; transform: translateY(0); }
}
.hover-scale {
transition: transform 0.3s ease;
}
.hover-scale:hover {
transform: scale(1.05);
}
</style>
</head>
<body class="bg-gray-50">
<!-- Navigation -->
<nav class="bg-gradient-to-r from-green-600 to-teal-600 text-white p-4 sticky top-0 z-10 shadow-lg">

<h1 class="text-2xl font-bold">ClimateHealth AI</h1>
<ul class="flex space-x-6">
<li><a href="#home" class="hover:text-green-200 transition">Home</a></li>
<li><a href="#problem" class="hover:text-green-200 transition">Problem</a></li>
<li><a href="#solution" class="hover:text-green-200 transition">Solution</a></li>
<li><a href="#impact" class="hover:text-green-200
<li><a href="#get-involved" class="
</ul>

</nav>
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Code

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```
<html lang="en">
<body class="bg-gray-50">
    <section id="solution" class="py-16 bg-gray-100">
        <div class="container mx-auto text-center">
            <div class="grid grid-cols-1 md:grid-cols-3 gap-8">
                </div>
                <div class="p-6 bg-green-50 rounded-lg shadow-md hover-scale">
                    <span class="text-4xl mb-4 block">🌍</span>
                    <p class="text-gray-600">Inclusive: Works in low-resource settings with basic phones</p>
                </div>
                <div class="p-6 bg-green-50 rounded-lg shadow-md hover-scale">
                    <span class="text-4xl mb-4 block">📈</span>
                    <p class="text-gray-600">Scalable: Adapts to different regions and health systems</p>
                </div>
            </div>
        </div>
    </section>

    <!-- How It Works Section -->
    <section id="how-it-works" class="py-16 bg-white">
        <div class="container mx-auto text-center">
            <h2 class="text-4xl font-bold text-green-800 mb-8 fade-in">How It Works</h2>
            <div class="grid grid-cols-1 md:grid-cols-4 gap-8">
                <div class="p-6 bg-green-50 rounded-lg shadow-md hover-scale">
                    <span class="text-4xl mb-4 block">📊</span>
                    <h3 class="text-xl font-semibold text-green-700">1. Data Collection</h3>
                    <p class="text-gray-600">Real-time environmental, health, and social data from multiple sources</p>
                </div>
                <div class="p-6 bg-green-50 rounded-lg shadow-md hover-scale">
                    <span class="text-4xl mb-4 block">🤖</span>
                    <h3 class="text-xl font-semibold text-green-700">2. AI Processing</h3>
                    <p class="text-gray-600">Advanced machine learning models analyze patterns and predict health risks</p>
                </div>
                <div class="p-6 bg-green-50 rounded-lg shadow-md hover-scale">
                    <span class="text-4xl mb-4 block">🚨</span>
                    <h3 class="text-xl font-semibold text-green-700">3. Alerts & Insights</h3>
                    <p class="text-gray-600">Personalized, actionable health guidance delivered through multiple channels</p>
                </div>
                <div class="p-6 bg-green-50 rounded-lg shadow-md hover-scale">
                    <span class="text-4xl mb-4 block">🎯</span>
                    <h3 class="text-xl font-semibold text-green-700">4. Decision Support</h3>
                    <p class="text-gray-600">Evidence-based recommendations for individuals, healthcare workers, and policymakers</p>
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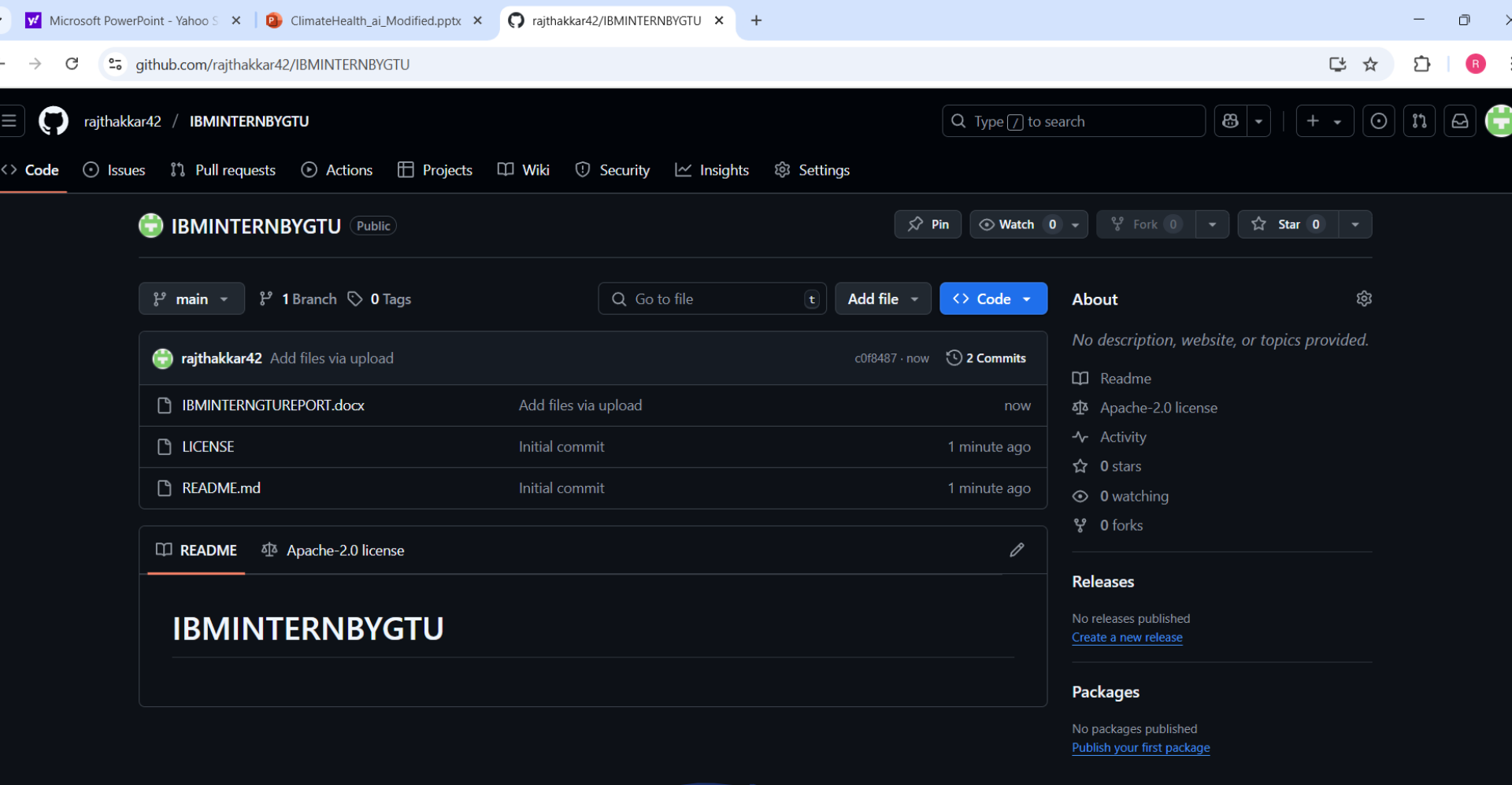

Model/Repo Link(GITHUB)

https://github.com/rajthakkar42/IBMINTERNBYGTU.git

Future Scope

- Integrate more diseases, mental health, and nutrition
- Expand to more vulnerable and urban regions
- Collaborate with global agencies
- Use insights for long-term planning

Conclusion

- Climate change poses urgent health risks worldwide.
- AI-driven, proactive, and inclusive solution.
- Together, we contribute to SDG-13: Climate Action.