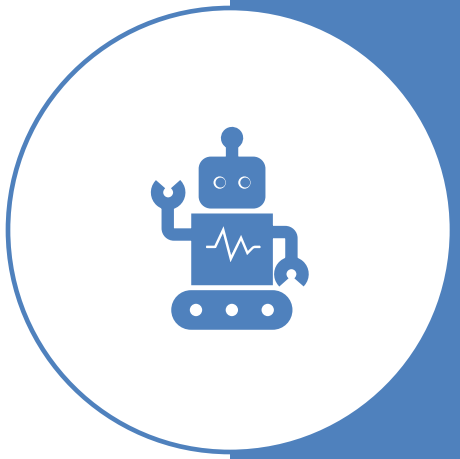
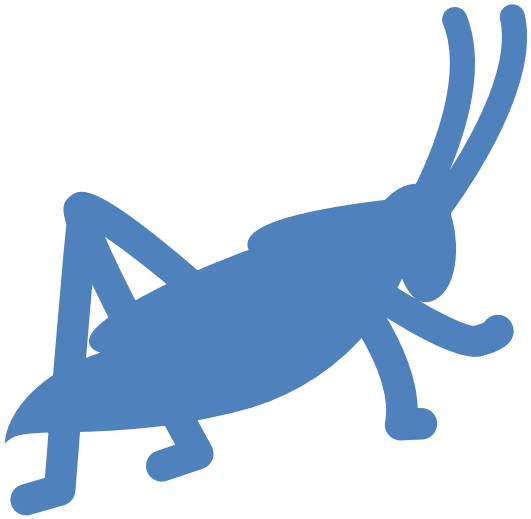
IBM **SkillsBuild**
Intership Program 2026



- **ClimateHealth AI** (SDG-13: Climate Change)
- Name: Parth Chauhan

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

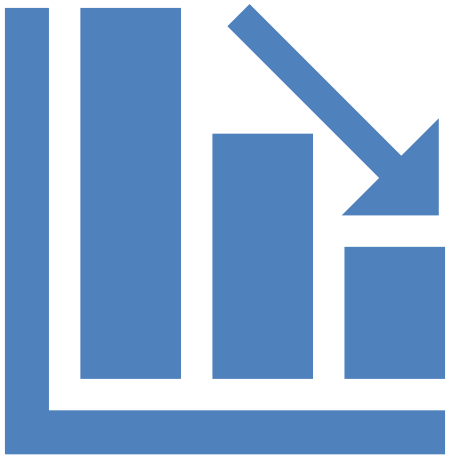


Climate change is increasing health risks:

1. Heat-related illnesses
2. Vector-borne diseases (malaria, dengue)
3. Respiratory problems

Populations are vulnerable due to:

1. Limited real-time monitoring
2. Gaps in healthcare infrastructure
3. How awareness of climate-health linkages



Significance of the Problem

1. Climate change threatens human health globally.
2. Health shocks reduce productivity & increase healthcare burden.
3. Current systems are reactive, not preventive.
4. 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:

1. Timely prevention of heat & disease emergencies.
2. Reduces hospital visits & mortality.
3. Improves efficiency of healthcare delivery.

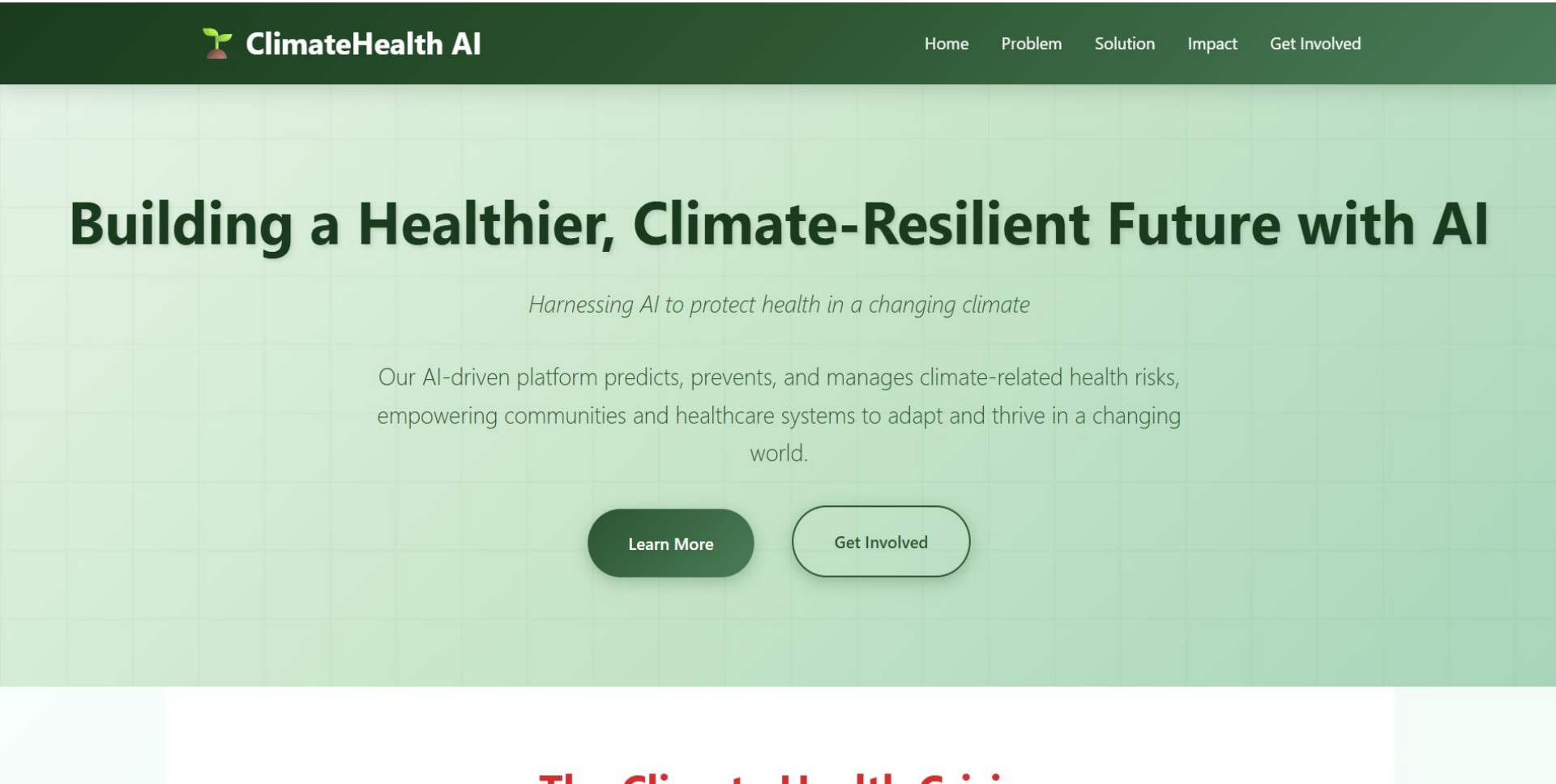
Broader Impacts:

1. Supports SDG-13 by building climate resilience in health.
2. Reduces economic loss from health shocks.
3. Enables data-driven policy decisions.

How It Works

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

Prototype


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.

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

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

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

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

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

Contact Us

Name *

Email *

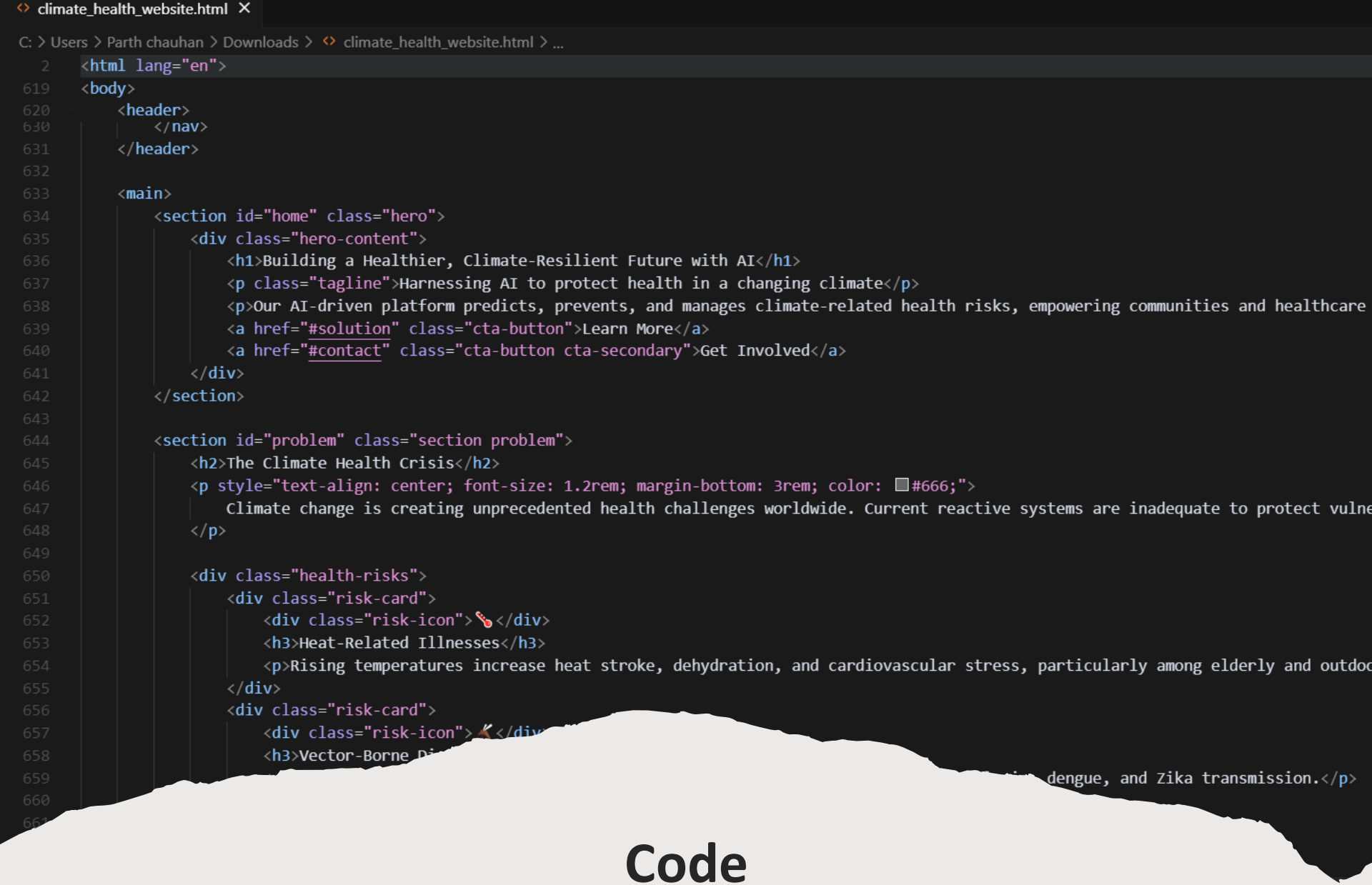
Organization

Interest Area *

Select your interest...

Message *

Tell us about your interest in climate-health solutions...


climate_health_website.html
C: > Users > Parth chauhan > Downloads > climate_health_website.html > ...
<html lang="en">
<body>
<header>
</nav>
</header>
<main>
<section id="home" class="hero">

<h1>Building a Healthier, Climate-Resilient Future with AI</h1>
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
Learn More
Get Involved

</section>
<section id="problem" class="section problem">
<h2>The Climate Health Crisis</h2>

Climate change is creating unprecedented health challenges worldwide. Current reactive systems are inadequate to protect vulne

<h3>Heat-Related Illnesses</h3>
Rising temperatures increase heat stroke, dehydration, and cardiovascular stress, particularly among elderly and outdoo

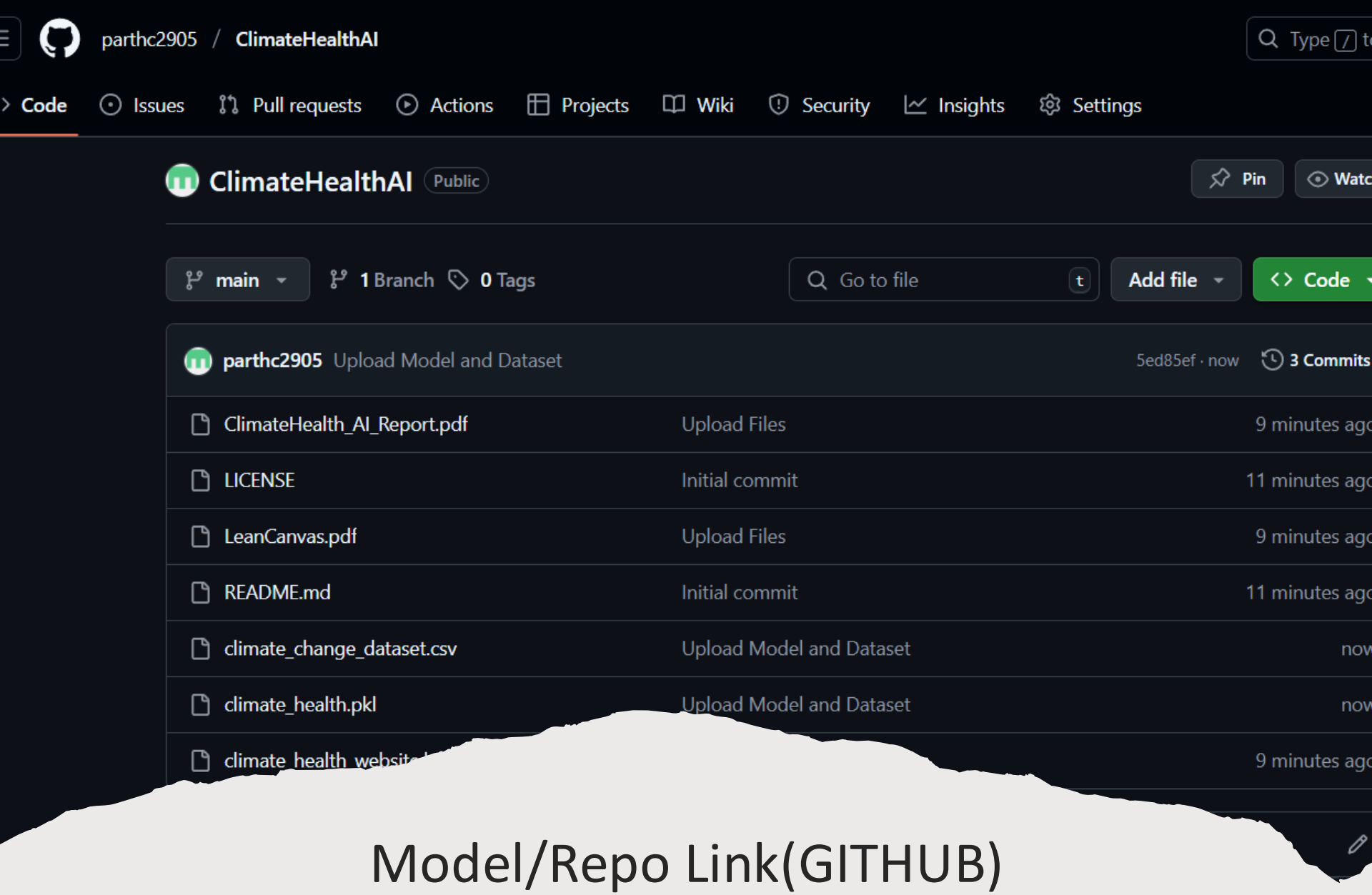
<h3>Vector-Borne
dengue, and Zika transmission.

Code

climate_health_website.html

C: > Users > Parth chauhan > Downloads > climate_health_website.html > ...

```
  2   <html lang="en">
619   <body>
856       </footer>
857
858       <script>
859           // Smooth scrolling for navigation links
860           document.querySelectorAll('a[href^="#"]').forEach(anchor => {
861               anchor.addEventListener('click', function (e) {
862                   e.preventDefault();
863                   const targetId = this.getAttribute('href').substring(1);
864                   const targetElement = document.getElementById(targetId);
865                   if (targetElement) {
866                       targetElement.scrollIntoView({
867                           behavior: 'smooth',
868                           block: 'start'
869                       });
870                   }
871               });
872           });
873
874           // Header scroll effect
875           window.addEventListener('scroll', () => {
876               const header = document.querySelector('header');
877               if (window.scrollY > 100) {
878                   header.classList.add('scrolled');
879               } else {
880                   header.classList.remove('scrolled');
881               }
882           });
883
884           // Form submission handler
885           document.getElementById('contactForm').addEventListener('submit', function(e) {
886               e.preventDefault();
887
888               const submitBtn = this.querySelector('.submit-btn');
889               const originalText = submitBtn.textContent;
```



Model/Repo Link(GITHUB)

https://github.com/parthc2905/ClimateHealthAI

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

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