AI FOR GLOBAL HEALTH INNOVATION CHALLENGE 2024

August 31 Kick-Off Event

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WELCOME!

- **AI for Pandemic and Epidemic Preparedness (AI4PEP) is a Global South Network that aims to improve our understanding of how responsible AI solutions can improve public health preparedness and response (https://ai4pep.org/)**

- **The AI for Global Health Innovation (AI4GHI) Challenge is hosted by the AI4PEP Student Collective and is a unique inquiry-driven, experiential learning program that connects students from any undergraduate or graduate program to hone their problem-solving skills while building the fundamentals of data science principles (https://ai4pep.org/ai4ghi/)**

AGENDA

- The Theme
- Your Challenge
- Our Support
- Timeline
- Submission for Phase IA
- Criteria for Phase IB

THE THEME

Disease outbreaks are becoming **more frequent** and severe due to factors like expanding human activities into natural areas, urban growth, increased global travel, and climate change. These outbreaks impact various groups differently, often **disproportionately affecting vulnerable populations**. Recent pandemics like COVID-19 highlight these complex effects. Additionally, new infectious diseases, which often originate from animals, **present unique challenges** due to their varied ways of spreading and causing illness, making them **difficult to manage with traditional methods.**

AI4PEP
Student Collective

YOUR CHALLENGE

We challenge teams from all over the world to **develop innovative solutions** utilizing **responsible AI** in proposing strategies that strengthen global health systems **against climate-sensitive health threats** while **ensuring resilience and equity in** health outcomes.

STUDENTS WILL

- **Develop a research question** identify a knowledge gap
- **Collect and Analyze Data.** You are allowed to use any data source you find online or in an academic, peer-reviewed research paper
- **Analyze the role of various factors** (Political, Socioeconomic, Financial, Biological, etc.)
- **Formulate Innovative solutions** to strengthen climate-sensitive health systems, backed by analysis of Big Data
- **Present your findings through a concise video and abstract**

OUR SUPPORT

- **Provide resources to build foundational skills**
  - Student lecture series
  - Accessible courses for learning data science
  - Resources for learning effective communication
  - https://docs.google.com/document/d/1Qrgburyni5rH2QbM2zLGsGDO54GoDCkGLRyouYakAxk/edit?usp=sharing
- **Guidance on data collection**
  - https://docs.google.com/document/d/1y367sgGuVKmmHDHo26X8l3oq-5U2zjtJONSksiW09t4/edit?usp=sharing
- **Have access to an advisor**
  - For the project: check out https://ai4pep.org/ and https://www.linkedin.com/in/global-south-ai4pep-network-83477624b/
  - For communication-related topics: https://calendly.com/mahakprit/ai4ghi-communications-meetings
- **Is there an accommodation you would like to request? Let us know!**
  - https://tally.so/r/31M804

TIMELINE

EVENT REGISTRATION

Students will register and either have a pre-formed team, indicate that they would like to be paired with another student, or participate individually.

August 1 - August 30, 2024

KICK-OFF EVENT

By the start of the event, students will be given their assigned teams. The grading rubric will be released along with an explanation of the competition details. The event will conclude with a Q and A session.

August 31, 2024

PHASE 1A

By the end of this period, students must submit their sub-theme selections. Students will work together to develop a research question, and begin to collect data and conduct analyses.

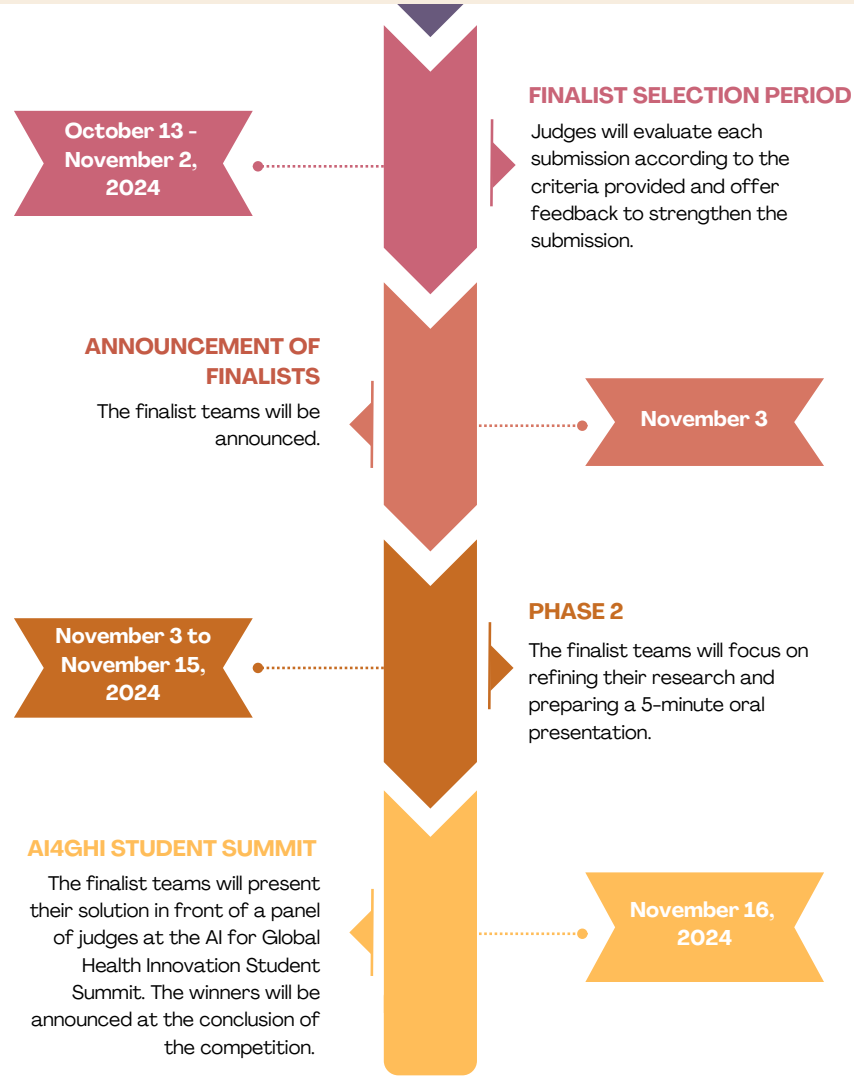September 1 - September 14, 2024

PHASE 1B

The call for submissions officially begins. Students will finish their analyses and proposals by submitting both a 3-minute video accompanied with a max 250-word abstract.

September 15 - October 12, 2024

A4PEP

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TIMELINE

FINALIST SELECTION PERIOD

October 13 - November 2, 2024

Judges will evaluate each submission according to the criteria provided and offer feedback to strengthen the submission.

ANNOUNCEMENT OF FINALISTS

The finalist teams will be announced.

November 3

PHASE 2

November 3 to November 15, 2024

The finalist teams will focus on refining their research and preparing a 5-minute oral presentation.

AI4GHI STUDENT SUMMIT

The finalist teams will present their solution in front of a panel of judges at the AI for Global Health Innovation Student Summit. The winners will be announced at the conclusion of the competition.

November 16, 2024

AI4PEP Student Collective

PHASE IA

Submission link: https://tally.so/r/3XENrg

CRITERIA PHASE IB

1. Problem Definition and Relevance
- Is the problem (knowledge gap) addressed clearly defined and relevant?

2. Technical Approach and Methodology
- Is the approach suitable and feasible to address the problem while effectively incorporating AI?

3. Presentation and Communication
- Video: Is the video clear and engaging?
- Abstract: Is the abstract concise and effective in summarizing the research?

PRIZES

People Innovation Award (Prize is per team)
- 1st Prize: $1000 + Publication (Article-Processing Charge covered)
- 2nd Prize: $600
- 3rd Prize: $400

Science Communication Award (Prize is per team)
- 1st Prize: $1000 + Publication (Article-Processing Charge covered)
- 2nd Prize: $600
- 3rd Prize: $400

QUESTIONS?