

AI4GHI Challenge 2024 (AI for Global Health Innovation)

Pioneering Responsible AI Solutions for Strengthening Climate-Sensitive Health Systems

Tips when looking for data

Identify Relevant Data Sources:

- **Government Databases:** Many governments provide open access to environmental, health, and climate data. Check national and regional health departments, environmental agencies, and meteorological organizations.
- **Academic Institutions:** Universities often have research projects or data repositories related to climate change, health, and AI. Look for research centers focusing on these areas.
- **International Organizations:** Explore data from organizations like the World Health Organization (WHO), World Bank, and United Nations (UN) that offer global and regional datasets on health and climate.

Use Specialized Data Portals:

- **Climate Data Portals:** Websites like [Climate Change Knowledge Portal](#) provide climate and environmental data by country.
- **Health Data Repositories:** Platforms such as the [Global Health Observatory](#) (GHO) by WHO and the [Institute for Health Metrics and Evaluation](#) (IHME) offer a good starting point.
- **AI and Data Science Platforms:** Try searching on websites like [Kaggle](#) to find a dataset relevant to your research question

Look for Relevant Research Papers and Publications:

- **Data Sharing:** Research papers often include supplementary data or references to datasets. Platforms like Google Scholar, PubMed, and arXiv can be a useful starting point.
- **Data Repositories in Papers:** Many research papers will link to the data repositories they used. Follow these links for potentially valuable datasets.

Check for Local and Regional Data Sources:

- **Local Government and NGOs:** Local health departments, municipalities, and non-governmental organizations might have specific datasets that are not widely available but are critical for understanding regional issues.
- **Community and Regional Networks:** Engage with local research groups or community networks focused on climate and health issues, as they might have or know of relevant data.

Consider Data Quality and Relevance:

- **Data Provenance:** Ensure the data is from a reputable source and verify its accuracy and reliability. In addition, read the terms and conditions of use for each dataset and

cite all your sources appropriately.

- **Temporal and Spatial Resolution:** Make sure the data's time period and geographic scope match the needs of your research.

Use Data Aggregation and Integration Tools:

- **APIs and Web Scraping:** Some datasets might be accessible through APIs or require web scraping. Tools like Python's BeautifulSoup or Scrapy can be helpful.
- **GIS Tools:** Geographic Information Systems (GIS) software can be used to integrate and analyze spatial data related to climate and health.

Engage with Data Communities:

- **Forums and Conferences:** Participate in forums, workshops, and conferences focused on climate, health, and AI. These events can provide leads on where to find valuable data.

Data sources to get you started

Please note that this is not an extensive list and you may need to use the tips above to find a dataset that is relevant to your research question.

1. **World Health Organization (WHO) Global Health Observatory (GHO) -**
<https://www.who.int/data/gho>
2. **Global Health Data Exchange (GHDx) by Institute for Health Metrics and Evaluation (IHME) -** <https://ghdx.healthdata.org/>
3. **World Bank Health, Nutrition, and Population Data -**
<https://databank.worldbank.org/source/health-nutrition-and-population-statistics>
4. **World Bank Open Data -** <https://data.worldbank.org/>
5. **UNICEF Data Warehouse -**
https://data.unicef.org/resources/data_explorer/unicef_f/?dq=...&startPeriod=2018&endPeriod=2023
6. **Demographic and Health Surveys (DHS) Program -** <https://dhsprogram.com/>
7. **United Nations Population Division - World Population Prospects -**
<https://population.un.org/wpp/>
8. **African Development Bank group: Environment & Climate Change Data Portal -**
<https://africaclimate.opendataforafrica.org/>

9. **Asia Development Bank Data Portal** - <https://data.adb.org/>
10. **Open Data LAC** - <https://www.iadb.org/en/knowledge-resources/data>
11. **Original data from the MENA region** - <http://www.menadata.net/>