



# GLOBAL AI HACKATHON

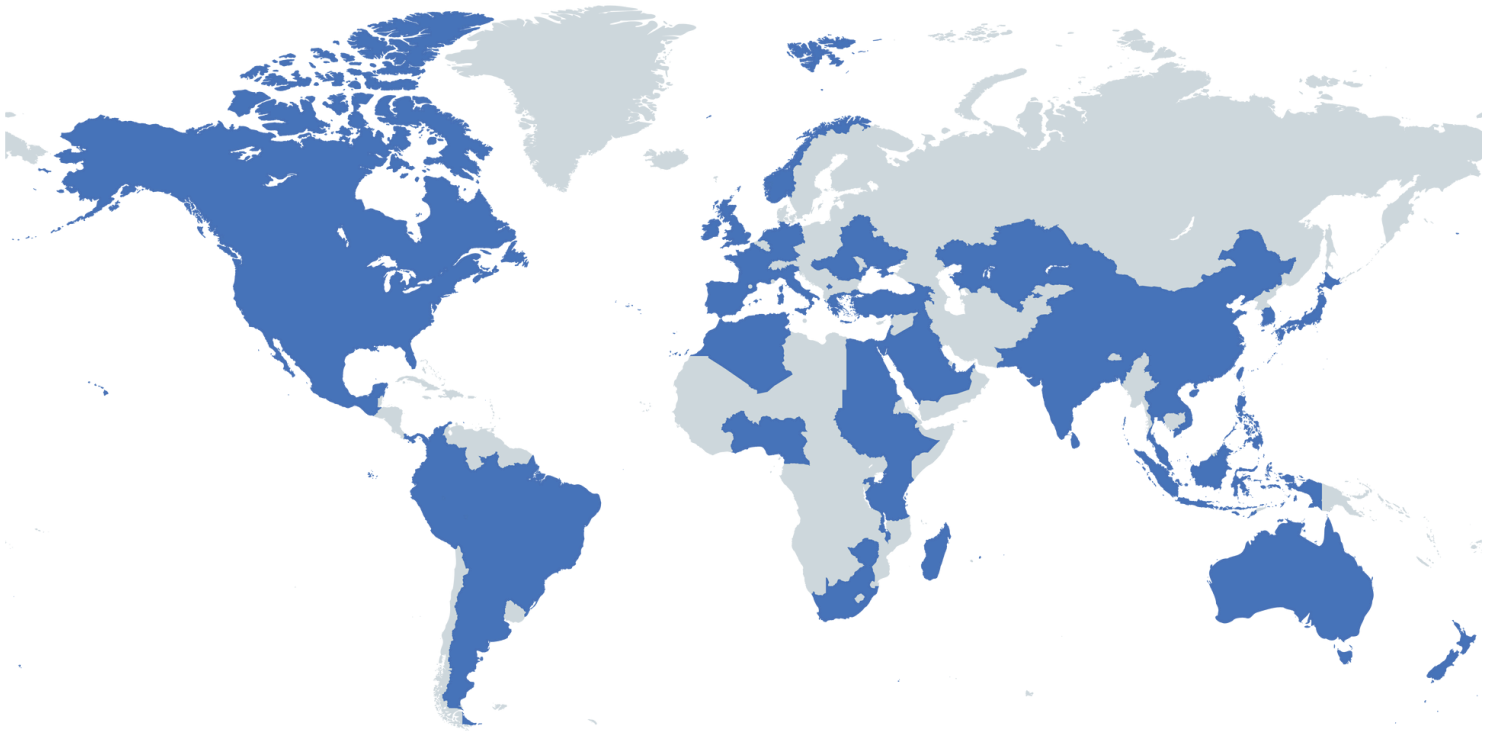
## 2024 Impact Report



# About

AI education is more important now than ever before. One of the best ways to teach AI is to actively engage students in building AI tools towards real-world problems. This year, we launched the Global AI Hackathon to challenge participants to develop AI apps addressing the following themes: **health & wellness** or **climate & sustainability**. Participants created their apps using **MIT App Inventor**, a free and open-source web platform that hosts over 20 million users worldwide. There were four tracks in the competition: youth team, youth individual, adult or mixed-age team, and adult individual. Winners from the four tracks will present their projects at the **MIT AI & Education Summit** in Cambridge, Massachusetts, in July 2024.

## Demographics



924

Total Number  
of Participants

81

Countries  
& Regions

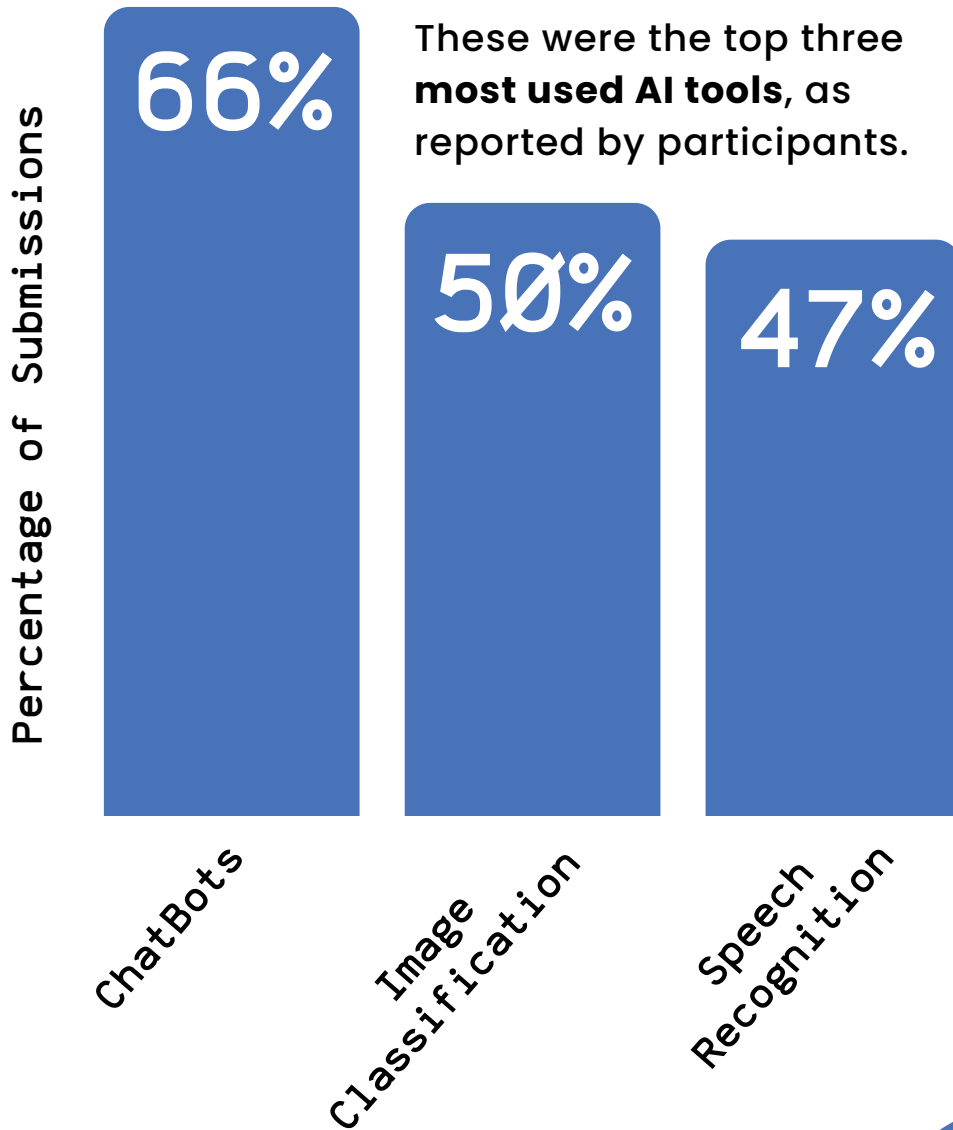
58%

Developing  
World

16

Median Age  
(From 7 to 65 Years)

# AI Usage



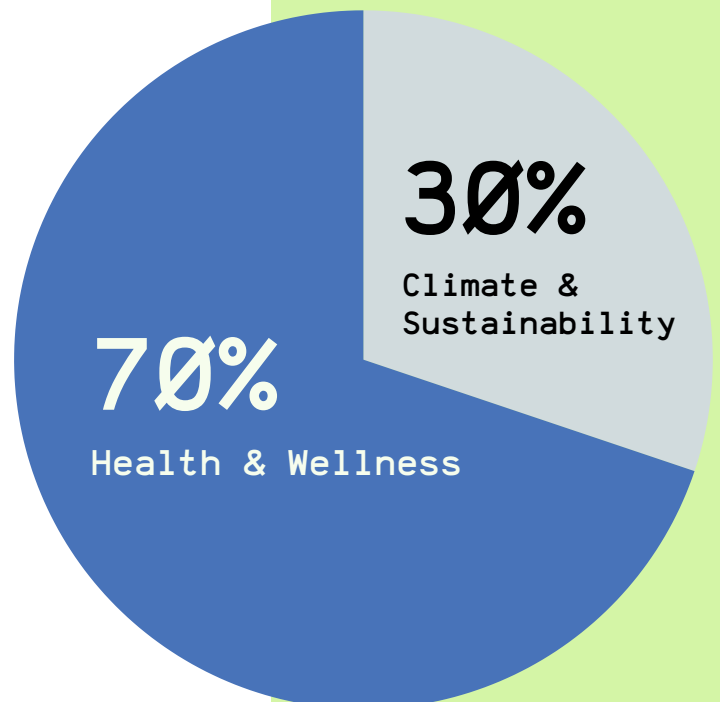
100% of submissions utilized AI in their projects, per the submission requirements.

AI usage ranged from the latest LLMs like ChatGPT and Gemini, to machine learning models trained on Teachable Machine, to conversational AI agents like Amazon's Alexa Skills.

# Tracks

The vast majority of submissions developed projects targeting **health and wellness** applications, such as accessibility, physical health, and mental wellbeing.

A smaller percentage addressed **climate and sustainability** related causes, like reducing carbon footprint, sorting waste, and detecting natural disasters.



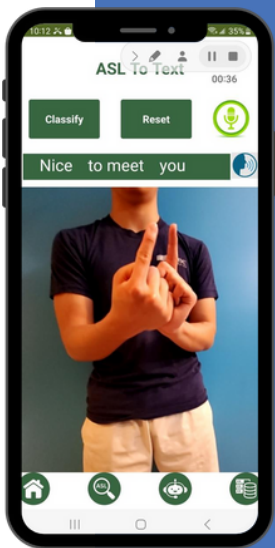
# Youth Winners

## SignLingo

*Youth Team Winner*

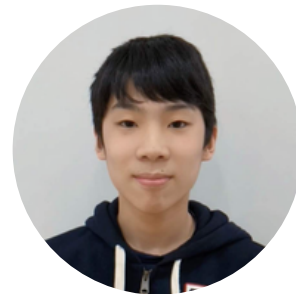
“SignLingo, an innovative AI-powered app, achieves two-way translation

between ASL gestures and spoken languages. It bridges communication gaps for individuals with hearing and vision disabilities, fostering inclusivity within the community.”



**Adrian Zhang**

🎓 Raleigh Charter HS  
📍 N. Carolina, USA



**Justin Wang**

🎓 Lexington HS  
📍 Mass., USA



**Amy Wang**

🎓 Cross Timbers MS  
📍 Texas, USA



**Jonathan Shan**

🎓 Poolesville HS  
📍 Maryland, USA



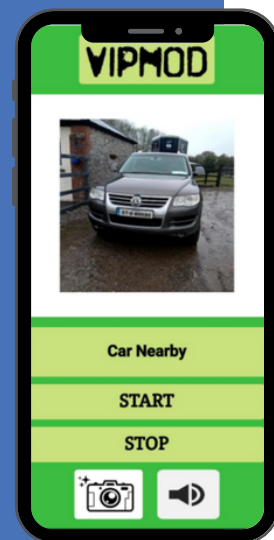
**Maura Moore-McCune**

🎓 King's Hospital School  
📍 Dublin, Ireland

## VIPMOD

*Youth Individual Winner*

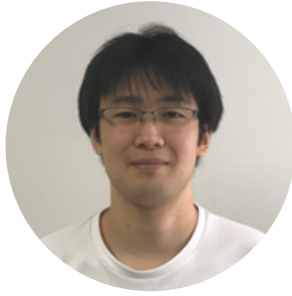
“VIPMOD (Vision Impaired Person's Moving Object Detector) is a system for detecting moving objects, to help people who are vision impaired or who have other access needs to live safer and more independent lives.”



# Adult Winners



**Takano Kousuke**



**Yukito Seo**

🎓 Kanagawa Institute of Technology  
📍 Atsugi, Kanagawa Prefecture, Japan



**Kaede Shitara**

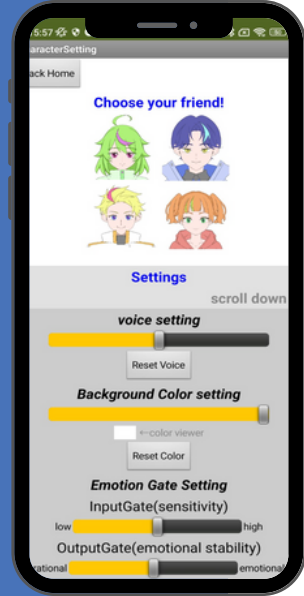


**Sato Tomoya**

## Neo Talk

*Adult Team Winner*

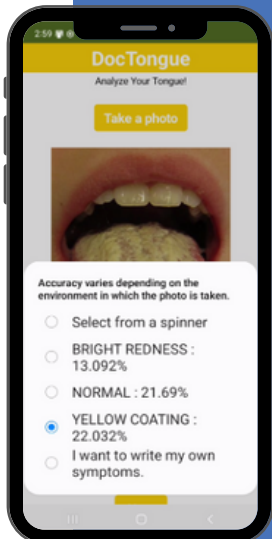
"The purpose of our application is to help people who have fewer opportunities to engage in face-to-face communication to develop the ability to sense the feelings of others and learn to communicate in a way that builds deep relationships, through talking with AI characters."



## DocTongue

*Adult Individual Winner*

"For people who have difficulty seeing a doctor in person, this AI-powered app allows you to check your health status through the characteristics of your tongue, such as color, abscesses, and surface texture."



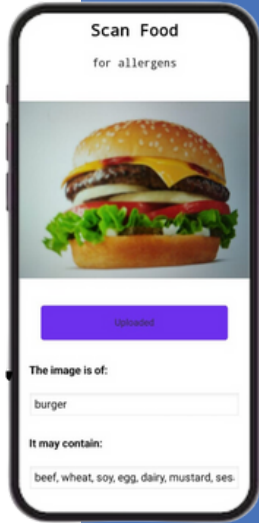
**Haksung Kim**

📍 Gyeonggi-do, South Korea



# Honorable Mentions

## Allergy Ally



“An AI-powered allergy companion app that revolutionizes allergy management by allowing users to log allergy symptoms, scan their food and the environment for allergens, view trends, and receive AI-generated reports.”



**Sai Pranav  
Gandhi**



**Viraj  
Marathe**

🎓 Sharada Mandir School  
📍 Panaji, Goa, India



**Felipe  
Amorim  
Ferraz**



**Henrique  
Roldan  
Ambrogi**



**Joao Vitor  
de Oliva  
Battiferro**

🎓 Lourenco Castanho School  
📍 São Paulo, Brazil

## Landslide Detection & Prevention System

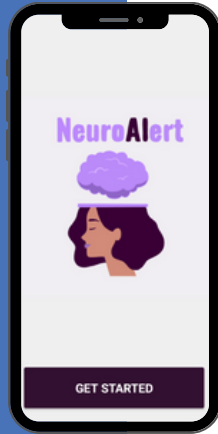
“An accessible and cheap way of preventing casualties coming from landslides in less prepared areas. The app is optimized for people with visual and hearing disabilities. An additional AI feature allows access to recommendations for procedures to be performed in emergency cases.”



# Honorable Mentions

## Neuro Alert

“Equipped with real-time alerts and location services, Neuro Alert is an AI-powered companion for rapid stroke symptom detection and emergency response.



**Himaja Mankala**

 Vancouver, Canada



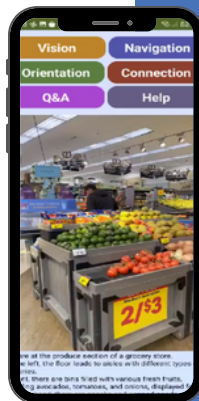
**Brendan Saw**

 Coquitlam, Canada



**Aiden Chen**

 Portola Middle School  
 California, USA

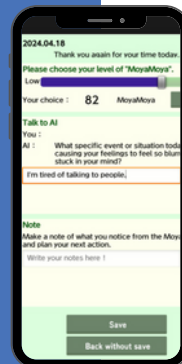


## Smart Vision



“This app provides a detailed audio description of the picture captured by user’s device camera, empowering blind and visually impaired users to explore the world with confidence.”

## MoyaMoya

“MoyaMoya solves mental health problems and brings innovation to society by positively addressing the un verbalized feelings called *MoyaMoya* in Japan.”



**Rei Takei**

 University of Tsukuba  
 Ibaraki, Japan

# Judging

Over one hundred teachers, engineers, and workplace professionals volunteered as Community and Technical Judges for the competition. Many of them volunteered for the first time with the Global AI Hackathon, while others have been judging MIT App Inventor competitions for 5 years and counting. We are thankful for the time and dedication of all our volunteer judges, without whom the competition would not have been possible.



*This competition was not only meaningful in sharing valuable knowledge, but also in raising awareness about responsible AI. I was thrilled to see so many aspiring young tech and design leads from around the world come together.*

- Alex Wan, Product Designer, VMWare

