

# AI for Health Challenge

7th August 2025

## Objective

You will have been given a number when you entered the room; this is your team number! In your small teams, design a simple AI-based solution for a health problem. Sketch your idea, consider basic ethics, and present a quick pitch.

## Duration & Setup

- **Total time:** 60 minutes
- **Teams:** 5–6 students
- **Materials:** paper, markers

## Steps

### 1. Brainstorm & Sketch (20 min)

- Identify a real health challenge.
- Outline your AI solution:
  - Data input (image, text, sensor...)
  - AI type (e.g. classifier, chatbot)
- Ethics “What if AI makes a mistake?”
- How does your AI work?
- Draw a simple workflow: Data → AI → Result

### 2. Prepare Poster (5 min)

Craft a 2-minute pitch covering:

- Problem definition
- How your AI works (show sketch)
- Ethical safeguards

### 3. Team Presentation & Voting (30 min)

- Each team presents for 2 minutes.
- Vote for winner!

## The Five Themes

### 1. Diagnosis Aid

E.g. smartphone photo or X-ray classifier to flag potential issues.

### 2. Personalized Support

E.g. wearable sensors or chatbots for teen mental health check-ins.

### 3. Robotic Assistance

Simple robot-enabled help: AI-guided physical therapy device or “smart” pill dispenser.

### 4. AI in Drug Discovery

Tool that suggests new compounds or predicts a teen’s response to medication.

### 5. Public Health Surveillance

System using social-media trends or school absentee data to flag early outbreaks.

## Tips for Success

- Keep your solution *simple* and *focused* on one clear problem.
- Use *big sketches* and minimal text.
- Think *health*—choose challenges relevant to your interests.
- Address at least one *ethical* concern (privacy, bias).
- Have fun and be *creative*!

**Note! There will be a prize for the winning group!**