

YGC - AI Competition 2026

Theme & Rules

Welcome to the YGC - AI Competition 2026, a premier Buildathon where ingenuity drives machine intelligence. We challenge you to design and engineer robust, high-impact applications powered by cutting-edge AI—spanning language models, computer vision, predictive analytics, and more. This is an intensive, hands-on AI competition; your goal is to leverage AI not just as a feature, but as the core engine of a functional digital solution.

We are looking for deep, technically rigorous AI integration. Avoid superficial implementations; we want to see real-world problem-solving, innovative architecture, and a genuine commitment to building intelligent, purposeful software.

Eligibility

This competition is open to everyone islandwide. Those who are interested in building AI solutions can compete.

Round 1: AI Medical Report & Prescription Cross-Checker

Users upload multiple medical documents from different visits or providers (lab reports, prescriptions, doctor's notes, discharge summaries). The AI must:

- Extract structured data (medications, dosages, test results, dates) from each document and merge it into one timeline per patient.
- Cross-check prescriptions across visits for potential drug interactions, duplicate prescriptions, or conflicting dosage instructions.
- Track lab result trends over time (e.g., a metric drifting out of normal range across several tests) and explain the trend in plain language.
- Support follow-up questions that require reasoning across multiple documents at once (e.g., “Did my new medication get prescribed despite the allergy noted in last year's report?”).
- Provide a confidence score per answer and clearly recommend consulting a doctor or pharmacist for any high-risk or low-confidence flag – the app must never present itself as a diagnosis.

System & Workflow Requirements:

- **User Workflow:** The system must support a complete end-to-end flow where users upload documents, wait for AI processing, and then interact with the results via a clear

interface (e.g., viewing the patient timeline, reading trend explanations, and asking follow-up questions).

- **Functional End-to-End Flow:** While complex security or high-end UX is not required, the system must demonstrate a seamless transition from Input (Upload) to Processing (AI Engine) to Output (Interactive Dashboard/Interface).
- **Functional Frontend:** A "functional frontend" implies that the user can perform the entire task within the application itself. Solutions provided solely as API calls or backend scripts will not be considered sufficient.

Evaluation Input

Participants are requested to refer to the sample medical document set available at the link below.

https://drive.google.com/file/d/1eM2iRq8d9KlobG3moPRZazS9YvVRae_V/view?usp=drive_link

The dataset consists of multi-visit, multi-provider medical documents, including PDFs of lab reports, prescriptions, and discharge summaries. It intentionally includes:

- Deliberate drug interaction risks or duplicate prescriptions across visits.
- Conflicting dosage instructions.
- Longitudinal lab results demonstrating trends that drift out of normal ranges.
- Potential allergy/contradiction triggers to test reasoning capabilities.

Teams are expected to build a solution that processes these specific, messy real-world formats reliably.

Round 1 will be conducted online.

Teams are required to present their work to a 3-member judging panel. Based on the judges' decision, a set of finalist teams will be selected to advance to Round 2.

Round 2: Demo & Judging

The Finalists will be given another challenge which they will take another two weeks to develop and present a live demo to the jury, followed by Q&A.

Selected teams/participants from the first round take two more weeks to develop another solution provided by us.

However they must be present in Jaffna in person for the second round evaluation.

Important Dates - Round 1

- **Submission Deadline:** August 5, 2026.
- **Results Announcement:** August 7th and 8th 2026

Important Dates - Round 2

- **Theme Reveal:** August 9 2026 (via email) / whatsapp
- **Demo day :** August 21 2026 , 01:00 PM - 4.00PM - Jaffna - In Person.
- **Results Announcement:** Aug 22, 2026 via WhatsApp or/and email.

What You Can Use BUT NOT Limited to these.

- **Any AI/ML APIs or models** (OpenAI, Claude, HuggingFace, Replicate, DeepSeek or Kimi 3.0.)
- **Your own trained models** or open-source models
- **Vector DBs** (e.g., Pinecone, Weaviate)
- **LangChain, RAG pipelines**, embeddings, transformers
- **Any backend/frontend stack** (Node, Python, Flask, React, etc.)
- **Platforms** for hosting (Vercel, Netlify, HF Spaces, etc.)

Submission Requirements - Round 1

All participants must submit the following **before the deadline**:

1. **Publicly Viewable Demo/App Link**

Hosted on any platform (e.g., Vercel, HF Spaces, Netlify) and publicly accessible.

2. **Technical Summary doc (2-4 pager pdf)**

Include:

- Technical Stack
- Design & Architecture
- How AI is integrated
- Key features
- Challenges faced
- Unique impact/value proposition

4. **Short Presentation should include the following (4-5 minutes)**

- Product demo with the dataset provided by the judges.
- Short explanation about tools you have used to build the solution

Judging Criteria

Submissions will be evaluated across the following five categories:

- **AI Depth & Use (30%)**

How meaningfully and creatively AI is integrated into your application. Judges will assess whether AI is central to the solution and not just a surface-level add-on.

- **Technical Execution (30%)**

The quality of your implementation, code structure, performance, and architecture. This includes robustness, scalability, best practices in coding and third party tools usage.

- **Originality & Innovation (20%)**

How unique and novel your idea is. Does it offer a fresh perspective or solve a problem in a new way? Is it different from existing solutions?

- **Usefulness & Impact (10%)**

The real-world value or utility of your app. Does it solve a meaningful problem? Could it scale and benefit users at large?

- **Presentation & User Experience (10%)**

The overall polish of your app, including UI/UX, documentation, and clarity of the demo.
A well-presented solution with clear communication will earn higher marks.

Hackathon Rules

1. Teams of **1–4 people** are allowed.
2. Respect others. No hateful, unsafe, or unethical projects will be considered.
3. Final decisions of the judging panel are **binding**.
4. All rights and IPs will remain with the participants.

Rewards

- **Winner** – LKR 50,000
- **Runner-up** – LKR 30,000
- **2nd Runner-up** – LKR 20,000