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27 - 29 March , 2026

## AI IN HEALTHCARE HACKATHON 2026

### Official Regulations (within the Global TechHack 2026 framework)

**We invite you to participate in the AI in Healthcare Hackathon 2026.**

**Central Asian University** invites undergraduate students from around the world to take part in the international **AI in Healthcare Hackathon 2026**. The event will take place on March 27-29, 2026, in Tashkent, Republic of Uzbekistan.

This international hackathon brings together young innovators interested in:

- Artificial intelligence,
- Machine learning, and
- Healthcare technologies.

During the hackathon, participants will develop AI-based solutions for real clinical challenges, work in interdisciplinary teams, and collaborate with experienced mentors, engineers, and healthcare professionals.

We believe that participation in this hackathon will significantly contribute to your academic and professional growth, expand international networks, and strengthen expertise in the field of digital healthcare.

### About Central Asian University

Central Asian University is a modern higher education institution striving for excellence in education, research, and innovation.

The CAU School of Engineering integrates advanced technologies, international standards, and practical training to prepare leading specialists in artificial intelligence, data analytics, and healthcare technologies.

**Organizer: Central Asian University (CAU), Tashkent, Uzbekistan**

**Dates: March 27-29, 2026**

**Format: On-site participation**

## **1. GENERAL INFORMATION**

AI in Healthcare Hackathon 2026 is a 48-hour international on-site hackathon that brings together undergraduate students to develop artificial intelligence solutions aimed at addressing real-world challenges in the healthcare sector.

**The hackathon focuses on the application of:**

- Machine learning
- Computer vision
- Intelligent systems within medical and clinical contexts.

## **2. ELIGIBILITY REQUIREMENTS**

**Teams are eligible to participate in the hackathon provided they meet the following conditions:**

1. Participants must be undergraduate (bachelor's degree) students from universities worldwide.
2. All team members must be under 25 years of age as of March 29, 2026.
3. Team members may represent different universities and countries.
4. Each team must include at least one member with a background in Computer Science or Artificial Intelligence.

### **Recommendation:**

For effective work on hackathon challenges, it is recommended that the team include 2-3 members with an IT background (Computer Science, Artificial Intelligence, Data Science, or related fields).

5. Having a team member with a medical or biomedical background is encouraged but not mandatory.

## **3. TEAM FORMATION**

1. Each team must consist of 4 members.
2. The team composition may not be changed after the shortlisting stage, except with explicit approval from the Organizing Committee.
3. In the event that a team member withdraws or the team fails to meet the minimum size requirement:
  - The team must formally notify the Organizing Committee;

**The Organizing Committee reserves the right to:**

- Approve an alternative arrangement
- Disqualify the team.

#### **4. APPLICATION AND SHORTLISTING**

1. All teams must apply via the official registration form.
2. The application must include:
  - information about the team and participants;
  - A brief description of prior experience or a proposed idea in the field of AI for healthcare;
  - A video presentation (up to 3 minutes) — optional.
3. Application deadline: February 8, 2026.
4. Announcement of shortlisted teams: February 27, 2026.
5. Only shortlisted teams are eligible to participate in the on-site hackathon.

#### **5. HACKATHON SCHEDULE AND PRESENCE REQUIREMENTS**

1. The hackathon will take place from March 27 (12:00 PM) to March 29 (12:00 PM), 2026.
2. Mandatory in-person presence of all teams is required no later than 9:00 AM on March 27, 2026.
3. Teams must remain on campus for the entire duration of the hackathon.
4. Accommodation and meals will be provided by the organizers.
5. Teams are responsible for providing:
  - Their own computing equipment;
  - Cloud resources and services.

#### **6. HACKATHON THEME AND CHALLENGES**

A common AI in Healthcare challenge will be announced to all teams at the start of the hackathon.

Tasks may include, but are not limited to:

- Medical image classification;
- Disease detection and localization;
- Anatomical segmentation;
- Clinical prediction (regression-based tasks);
- Healthcare-oriented user interface development;
- Intelligent error handling and edge-case management;
- Model interpretability and visualization;
- Innovative AI methodologies and approaches.

## 7. DATASETS AND DATA USAGE

1. All primary datasets will be provided by the organizers at the start of the hackathon.
2. Teams are permitted to:
  - Apply data augmentation;
  - Use synthetic or artificially generated medical images;
  - Annotate data where necessary.
3. All such methodologies must be clearly described in the final presentation and in the report (if requested).
4. The test dataset used for final evaluation will not be shared with teams.

## 8. DEVELOPMENT RULES

1. Teams are allowed to use:
  - Pre-trained models;
  - Open-source libraries;
  - Code from previous projects, including materials submitted with the application.
2. Full internet access is permitted.
3. The use of external APIs and cloud platforms (AWS, Google Cloud, Azure, OpenAI APIs, etc.) is allowed.
4. All computational costs are the responsibility of the teams.

## 9. ETHICS AND RESPONSIBLE AI

1. Where applicable, teams must disclose:
  - model limitations;
  - potential biases;
  - risks and assumptions.
2. All solutions are intended strictly for research and demonstration purposes.
3. Teams must not claim that their solutions are ready for real-world clinical deployment.

## 10. USER INTERFACE REQUIREMENTS

1. Teams are required to design and present a user interface demonstrating how their AI solution would be used in a healthcare context.
2. The interface may be implemented as:
  - a prototype,
  - a dashboard,
  - a demonstration mock-up.

## 11. SUBMISSION REQUIREMENTS

Teams must submit:

1. A trained model (or models) for evaluation.
2. A final presentation with a duration of 10 minutes.
3. A brief technical report — upon request by the organizers.

## 12. EVALUATION AND JUDGING

1. Evaluation will be based on:

- offline evaluation of the submitted model using a hidden test dataset;
- expert jury assessment of the presentation and system architecture.

2. Evaluation criteria (100 points total):

### Criterion Points

**Model performance 60**

**User interface 10**

**Error handling and edge cases 12**

**Innovation and creativity 8**

**Presentation and clarity 10**

**Total 100**

3. No minimum score threshold is required to qualify for prizes.
4. Jury decisions are final and non-appealable.

## 13. AWARDS

- **1st Place: \$7,000**
- **2nd Place: \$5,000**
- **3rd Place: \$3,000**

Prize money will be paid to the team leader.

No taxes will be deducted by the organizers.

## 14. CERTIFICATES

All shortlisted teams that participate on-site will receive certificates of participation.

## 15. INTELLECTUAL PROPERTY

1. Teams retain full ownership of their projects, models, and code.
2. Organizers may use:
  - photographs,
  - videos,
  - demo materials,
  - brief descriptions

for promotional purposes.

3. Organizers will not publish team work in scientific publications without the team's written consent.

## **16. CODE OF CONDUCT AND DISQUALIFICATION**

1. Participants must adhere to academic integrity and professional conduct standards.
2. Any violation of rules, misrepresentation, or unethical behavior may result in disqualification.
3. The Organizing Committee reserves the right to make final decisions in unforeseen circumstances.

## **17. REGISTRATION**

Registration is carried out via the official link provided by the organizers.

- [Link](#)

## **18. CONTACT INFORMATION**

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