

Final Presentations

June 26, 2026





Student Opportunities

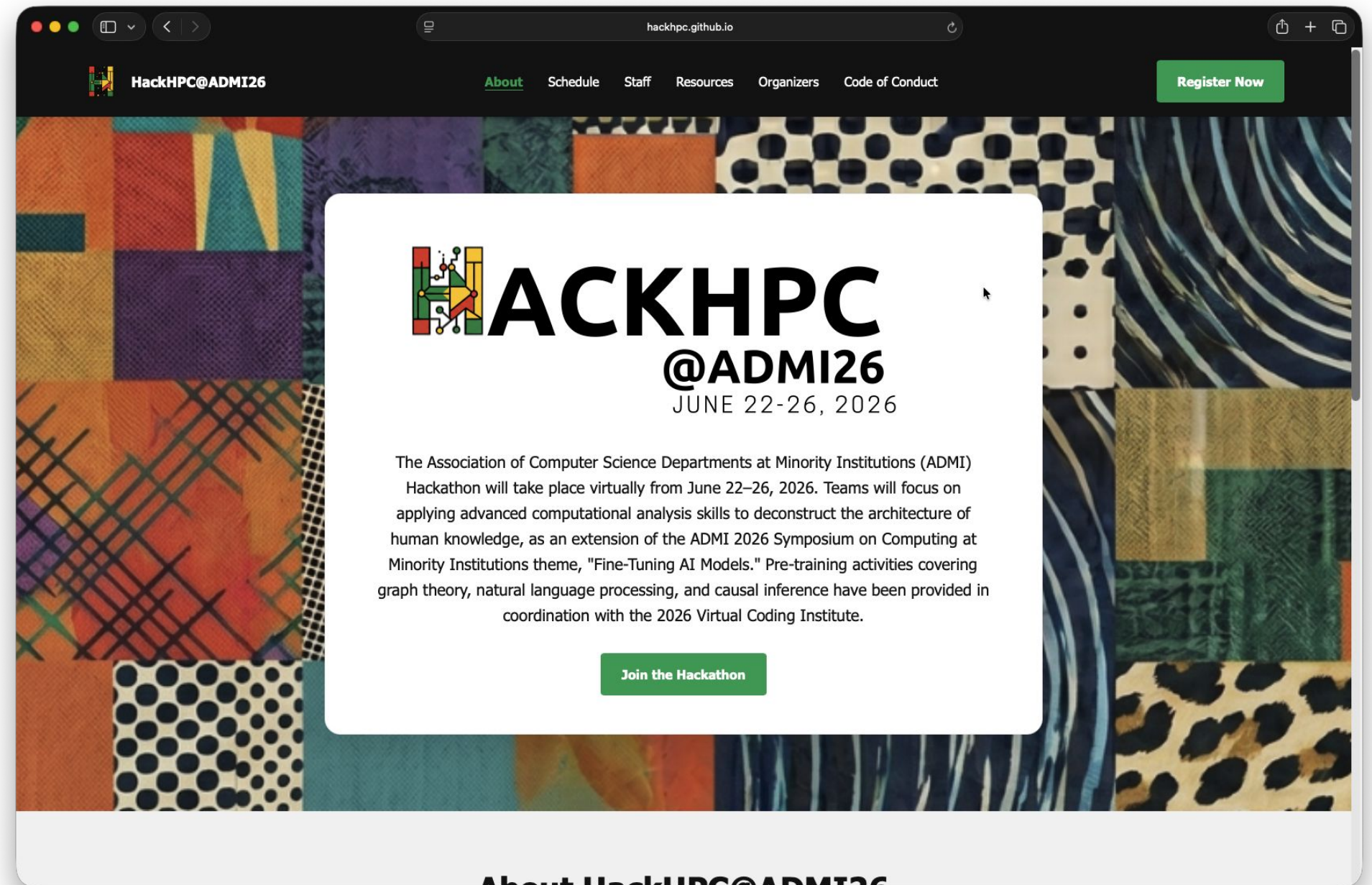
<https://hackhpc.github.io/admi26>

Final Presentations

June 26, 2026



- **Introductions**
 - Organizers / Staff
 - Judges / Guests
 - Participants
- **Purpose /Objective**
- **Timeline**
- **Deliverables**
- **Team Presentations**
- **Deliberations Break / Student Opportunities**
- **Awards Ceremony**





Introductions

<https://hackhpc.github.io/admi26>

The Objective of SGX3's ADMI26 Hackathon

The **HackHPC@ADMI26 Hackathon** is designed to give students from 2- to 4-year post-secondary institutions applied, hands-on experience with advanced computational analysis, artificial intelligence, and graph-based problem solving. This year's hackathon focuses on deconstructing the architecture of human knowledge by using Wikipedia as a large-scale knowledge graph.

Through this experience, participants will explore how information is connected, how ideas evolve over time, and how computational tools can be used to analyze historical patterns, predict future developments, and reason through alternative outcomes. Student teams will apply concepts from graph theory, natural language processing, causal inference, and LLM-augmented analysis to develop projects aligned with one of the hackathon's core innovation tracks: *Origin Tracking*, *Future Event Prediction*, or *Alternative Timeline Analysis*.

The event emphasizes collaborative project development, iterative feedback, technical communication, and creative problem solving. Participants will move beyond "black box" AI tools by building applications that help explain the how and why behind the information we consume.

Student Outcomes:

- Gain practical experience using graph-based methods to analyze large-scale knowledge networks
- Apply natural language processing and text analysis techniques to explore conceptual relationships
- Use causal inference and historical pattern analysis to reason about origins, future developments, and alternative outcomes
- Collaborate on real software projects using open-source tools, shared workflows, and team-based development practices
- Build professional communication skills through project planning, team updates, final presentations, and technical documentation
- Understand how AI, knowledge graphs, and computational analysis can support deeper exploration of human knowledge and scientific discovery



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Innovation Track Explanation

- **Origin Tracking**
Where Did It Start? Find the origin story of a topic.
- **Future Event Prediction**
What's Next? Use past patterns to predict what may happen next.
- **Alternative Timeline Analysis**
What If? Explore how the future could change if one important event were different.

Example Project Outline

Event Simplified Schedule

- **Monday, 6/22/26**
 - **Kick-Off**
 - Overview - Team Formation
 - Afternoon - Team Introductions
- **Tuesday, 6/23/26**
 - Morning Checkin - Team Project Plan
 - Afternoon Checkin - Team Status
- **Wednesday, 6/24/26**
 - Morning Checkin - Status
 - Afternoon Checkin - One-Day Progress
- **Thursday, 6/25/26**
 - Morning Checkin - Status
 - Afternoon Checkin - Status
- **Friday, 6/26/26**
 - **Final Presentations**

~ 100 hrs Total Time
- ~8 hrs Planning / Checkins
- ~32 hrs Sleep/Rest
~60 hrs Work Time



Hackathon Deliverables

- **GitHub Repository**

- README.md with project description and goals.
- Source code with comments explaining functionality.
- Project poster in PDF format.
- Final presentation in PDF, including:
 - Team members' names, schools, and photos.
 - Technology used (e.g., tools, HPC/AI resources).
 - Chosen Innovation Track
 - Innovation Track Visualization of Chosen Theme

- **Website for the Visualization and/or Application**

- **Proof of Poster Submission**

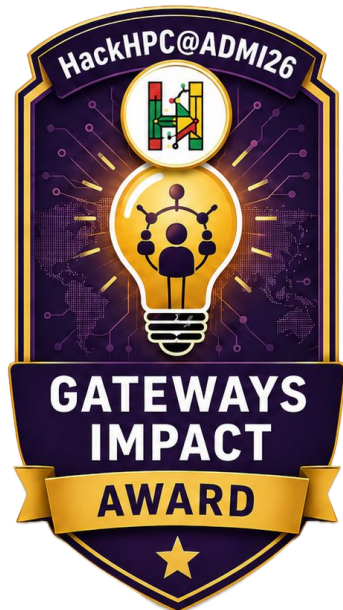
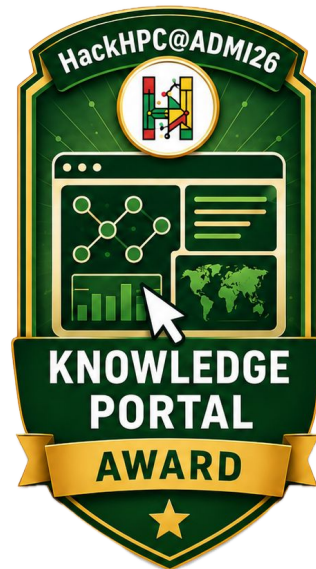
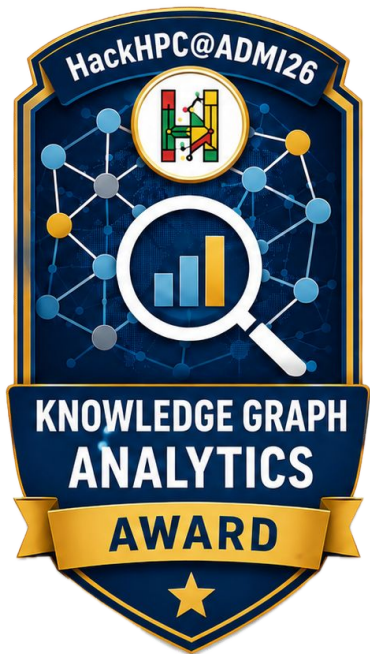
- Evidence of submitting the project poster to Gateways 2026.
- Adds +5 points to judging score.

Resources:

- GitHub and GitHub Pages
- Google Colab
- Omnibond's projectEureka
- TACC's Frontera
- Commonly Used
 - Generative AI
 - Python
 - Jekyll/HTML/CSS
 - Google Workspace
- **2026 Coding Institute Slack**
Workspace, #admi26-hackathon

Hackathon Awards

NOTE: A team can only win one (1) major award.



Major Awards

- **Knowledge Graph Analytics Award**

- *Recognizes the team with the most insightful and well-supported analysis of Wikipedia as a large-scale knowledge graph. This award celebrates thoughtful use of graph theory, natural language processing, causal reasoning, or LLM-augmented analysis to uncover meaningful patterns, relationships, origins, or future possibilities within connected knowledge.*

- **Portal Award**

- *Celebrates the team that creates the most effective, user-friendly, and engaging interface for exploring and communicating their project findings. This award honors strong design, clear visualization, and accessible presentation of complex knowledge relationships, timelines, predictions, or alternative scenarios.*

- **Gateways Impact Award**

- *Honors the team whose final project, presentation, and technical approach make the strongest overall contribution to this year's hackathon theme: deconstructing the architecture of human knowledge. This award recognizes a project that combines creativity, technical depth, clear communication, and meaningful use of computational tools to help users better understand how information connects, evolves, and shapes discovery.*

Minor Award Winners

- *Team Introduction* - 🏆 Capsule Corp CoderZ
- *Project Planning* - 🏆 WinMaxxers
- *Project Progress* - 🏆 The Hacking Tribunal



Team

Presentations

<https://hackhpc.github.io/admi26>



CAPSULE
CORP.

CAPSULE CORP
CODER Z





Team

Presentations

<https://hackhpc.github.io/admi26>



WinMaxxers





Team

Presentations

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ORIGIN ZERO

ORIGIN TRACKING | WHERE DID IT START?





Team

Presentations

<https://hackhpc.github.io/admi26>



WinMaxxers





Team

Presentations

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The Hacking Tribunal

Future Event Prediction

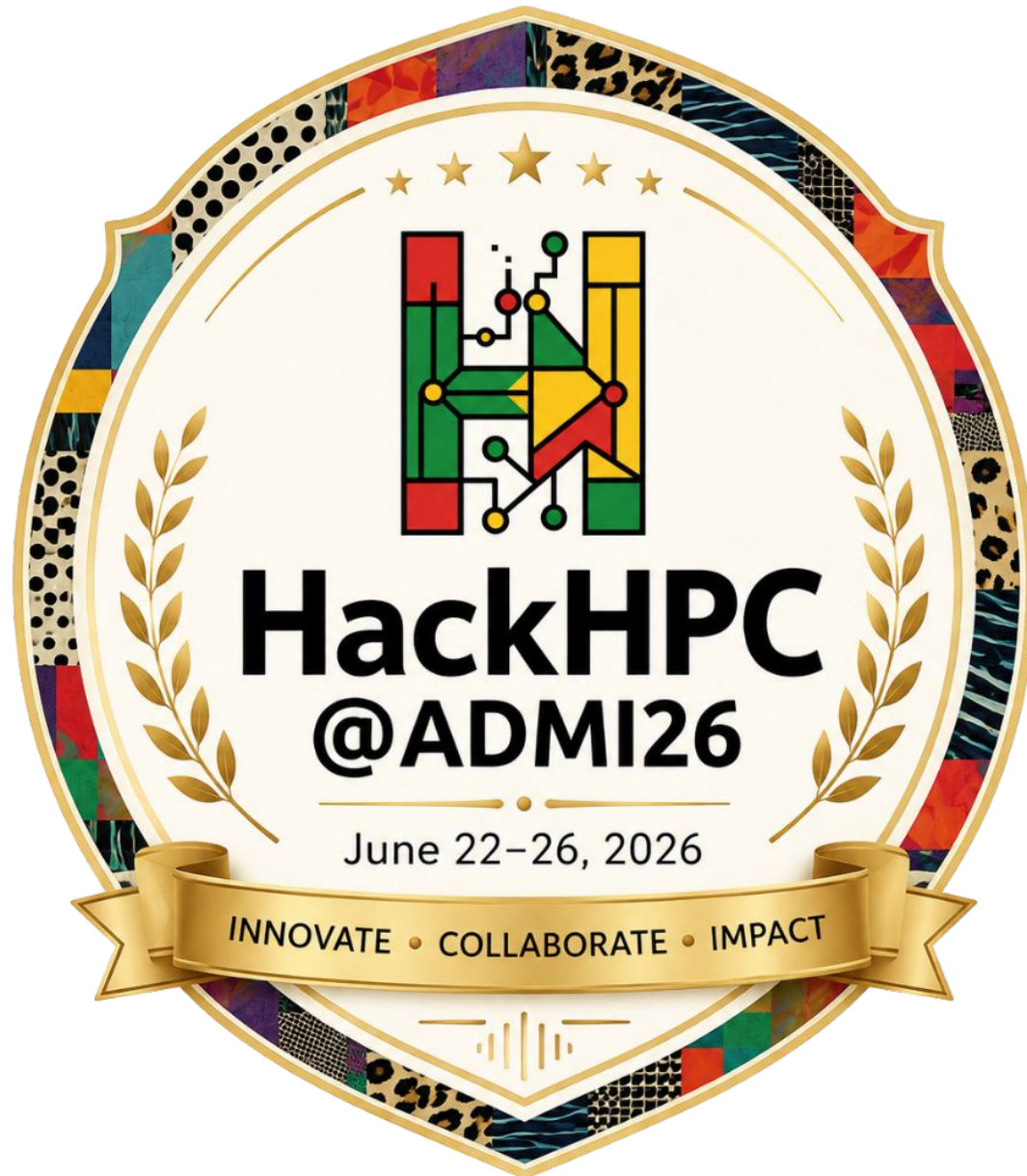




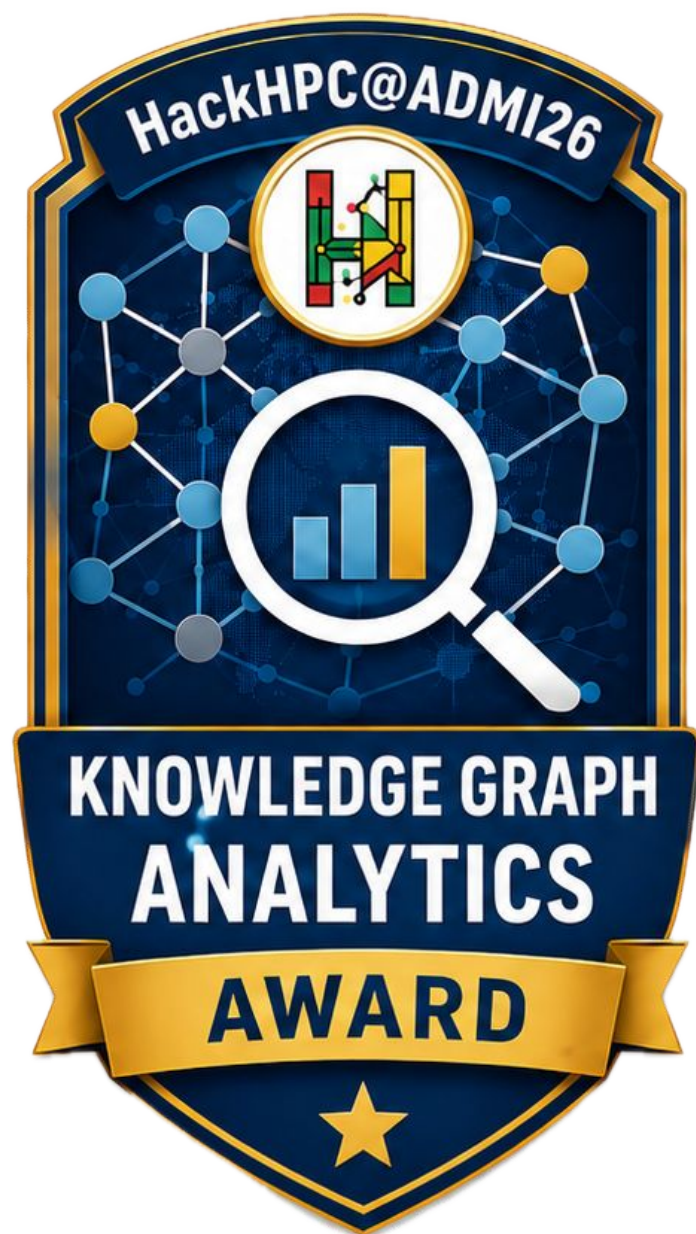
**Judges please make your way to the
breakout room for deliberation.**

15 min Break

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Awards Ceremony

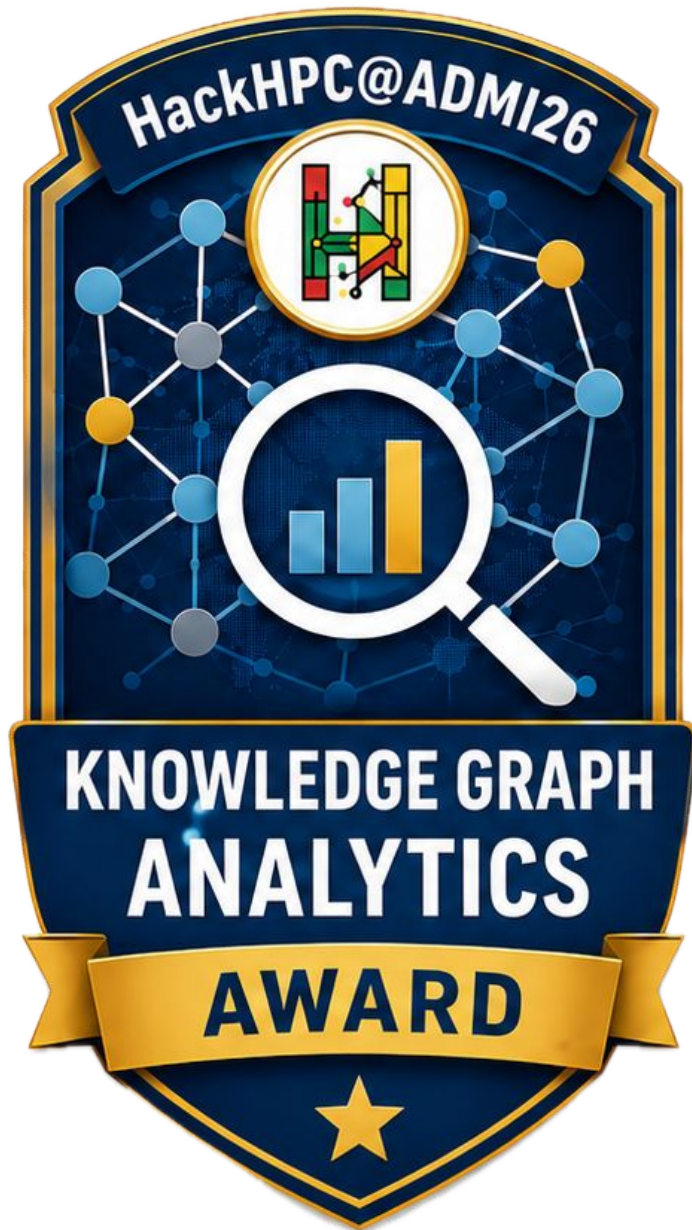


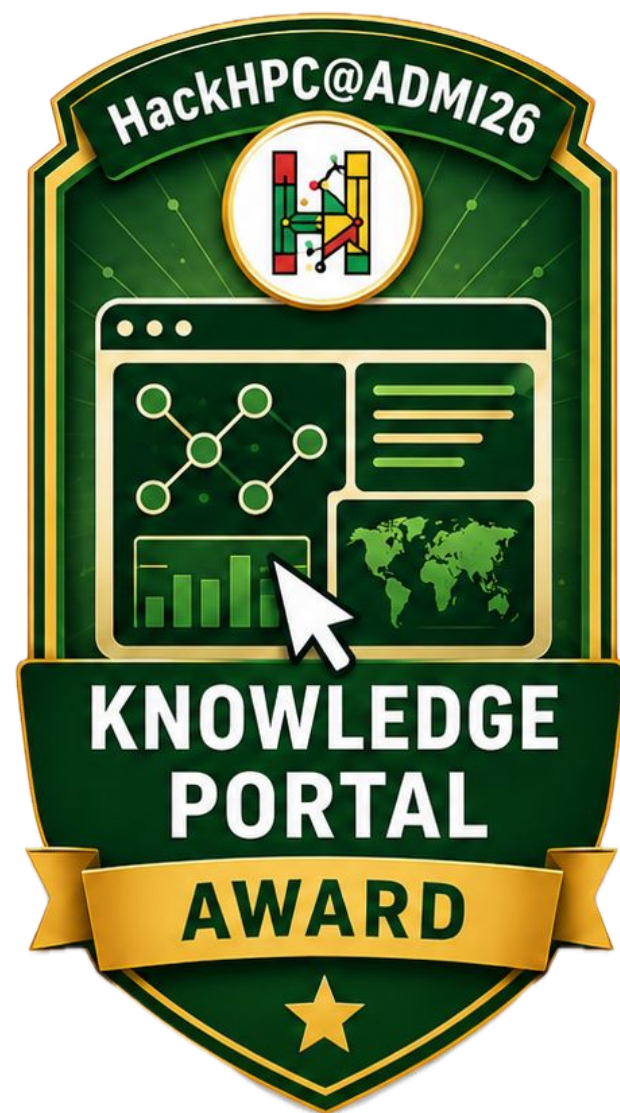
Knowledge Graph Analytics Award

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Knowledge Graph Analytics Award

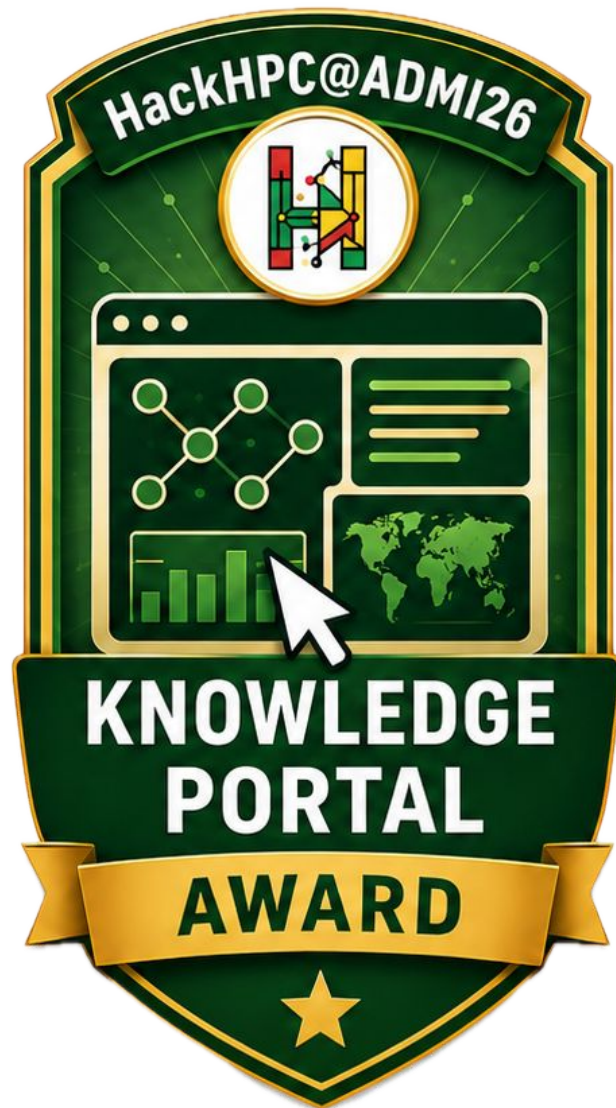
WinMaxers



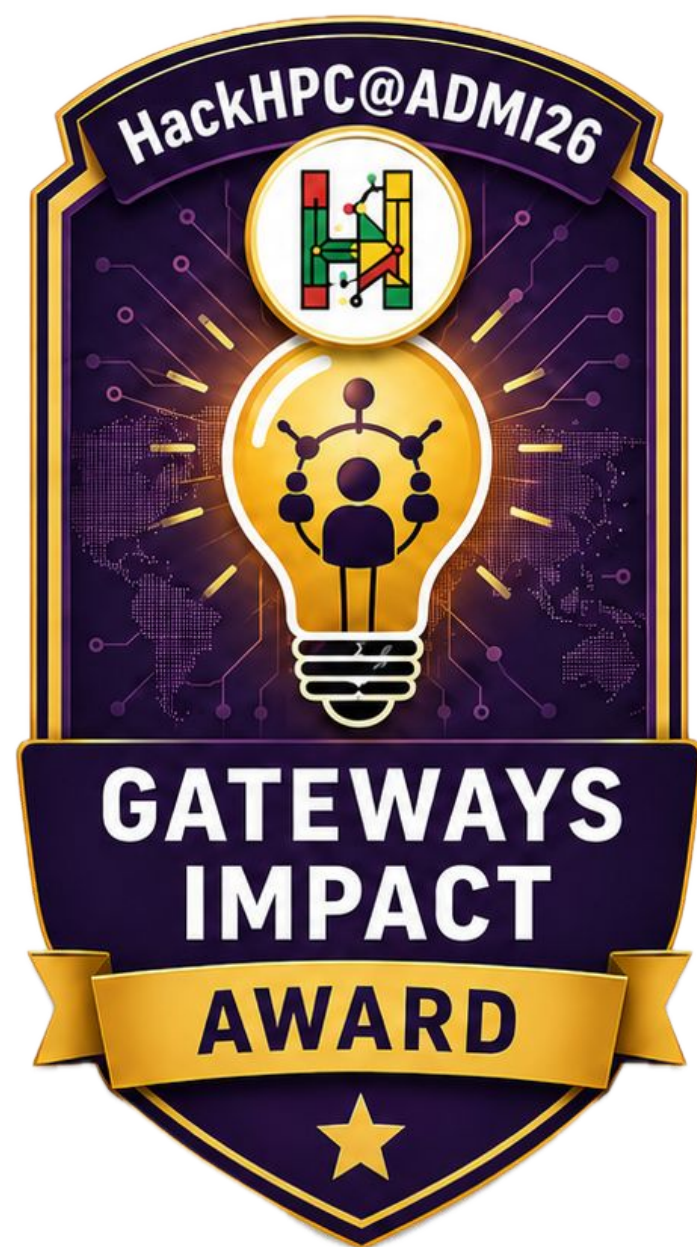


Portal Award

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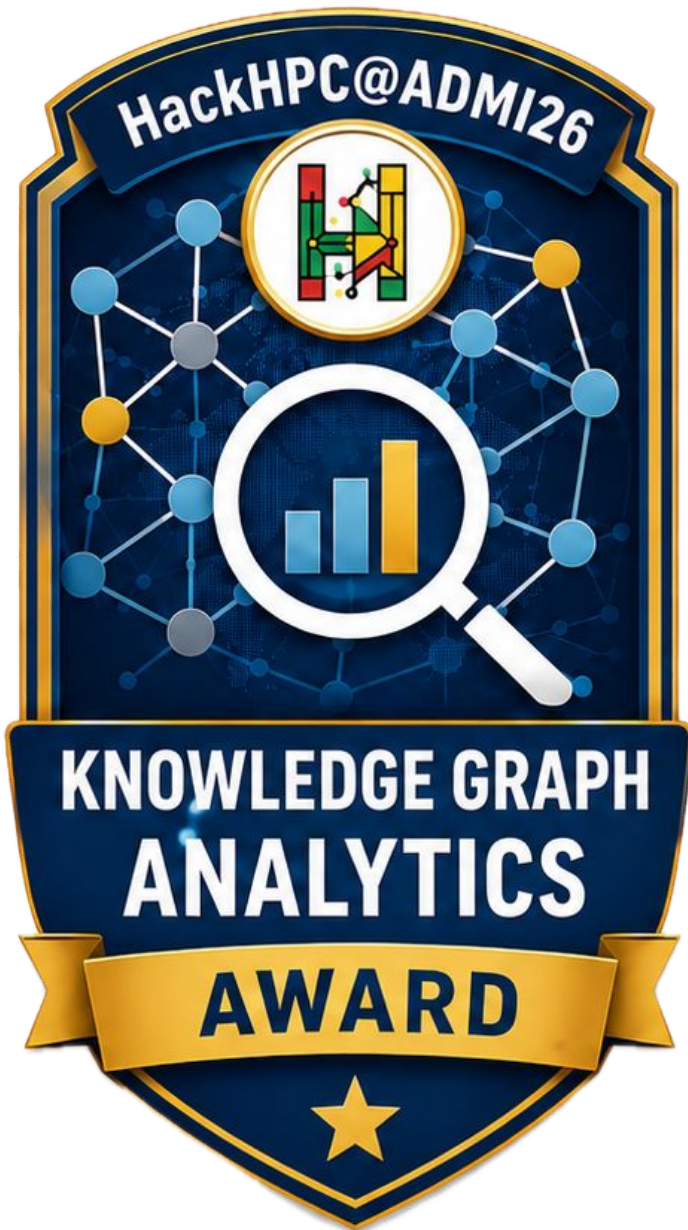
The Hacking Tribunal



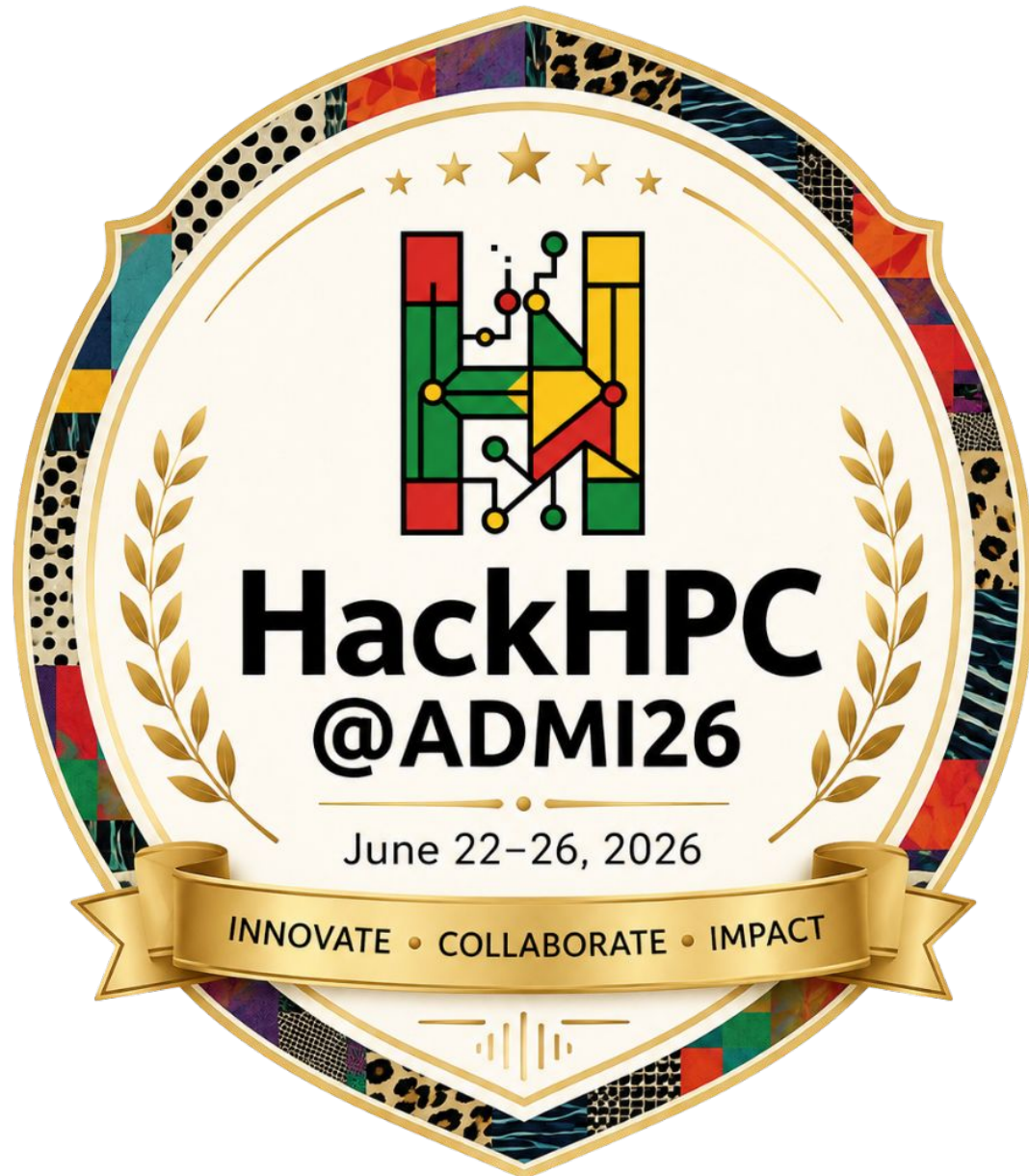
Gateways Impact Award

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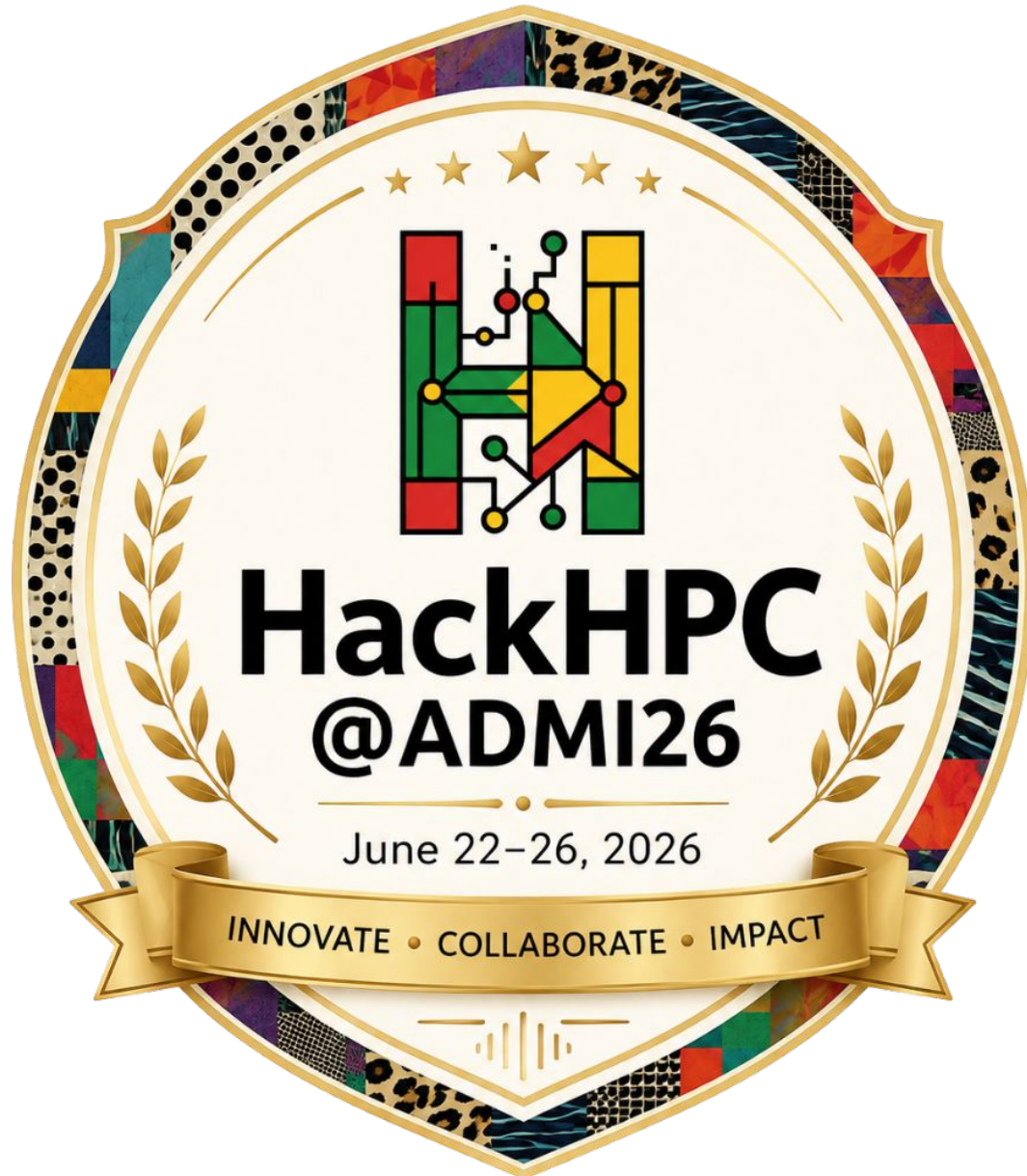
Gateways Impact Award



Origin Zero



Organizers Originality Award



Capsule Corp Coder Z