

Welcome to the AI+Science Hackathon

Eric and Wendy Schmidt AI-Postdoctoral Fellowship
A Schmidt Sciences Program
University of Chicago

April 30, 2024



Welcome to the AI+Science Hackathon!

- ▶ exciting new ideas
- ▶ transfer models to new areas
- ▶ compete for a trophy
- ▶ 2 projects

Unlock the Secrets of Molecules with AI

- ▶ 7 teams

The Lives & Deaths of Stellar Binaries

- ▶ 6 teams



Organizing Team

- ▶ Schmidt Postdoctoral Fellows
UChicago
- ▶ AI + Science community

Computational Environment

- ▶ 2 project specific introductions
- ▶ resources on RCC Midway3
- ▶ 8 dedicated Nvidia A100 GPUs
 - ▶ schmidt-gpu
- ▶ group storage

/project/dfreedman/hackathon/XXX



This is not the final GitHub URL

The screenshot shows a GitHub repository page for 'UChicago-AI-in-Science-Hackathon'. The repository has 20 commits, 0 stars, 1 watching, 1 fork, and no releases published. The README file contains a guide titled 'Getting Started with Midway3' which helps users quickly start using the Midway3 system and hardware. The repository also includes sections for Packages and Contributors.

UChicago-AI-in-Science-Hackathon Public

Watch Fork Star

Code

About

No description, website, or topics provided.

Activity

0 stars

1 watching

1 fork

Report repository

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

Contributors

InnocentBug Ludwig Schn...
badeaA
ColmTalbot Colm Talbot
badeaa3

Languages

Getting Started with Midway3

This guide is designed to help you quickly start using the Midway3 system and the hardware provided for this event.

Day 1: Excitement

- ▶ get to know each other
- ▶ get to know your mentor
- ▶ brain storm model ideas
- ▶ pick a tech stack
- ▶ build a data pipeline



Day 2: Valley of Despair

- ▶ your first ideas didn't work
- ▶ the excitement is wearing off
- ▶ brain storm and select most promising idea
- ▶ iterate and build new models
- ▶ train new models over night



Day 3: Seeing the Light

- ▶ your models worked over night!
- ▶ you can actually see how you solve this!
- ▶ iterate on your models
- ▶ optimize your hyper parameters
- ▶ finalize your models

Evening

- ▶ receive final evaluation data @ 5PM
- ▶ prepare your presentation



Day 4: Bringing it over the Finish Line

- ▶ gather results for last night
- ▶ present us your success and hiccups
- ▶ you have 7 minutes per team
- ▶ 2 minutes for questions

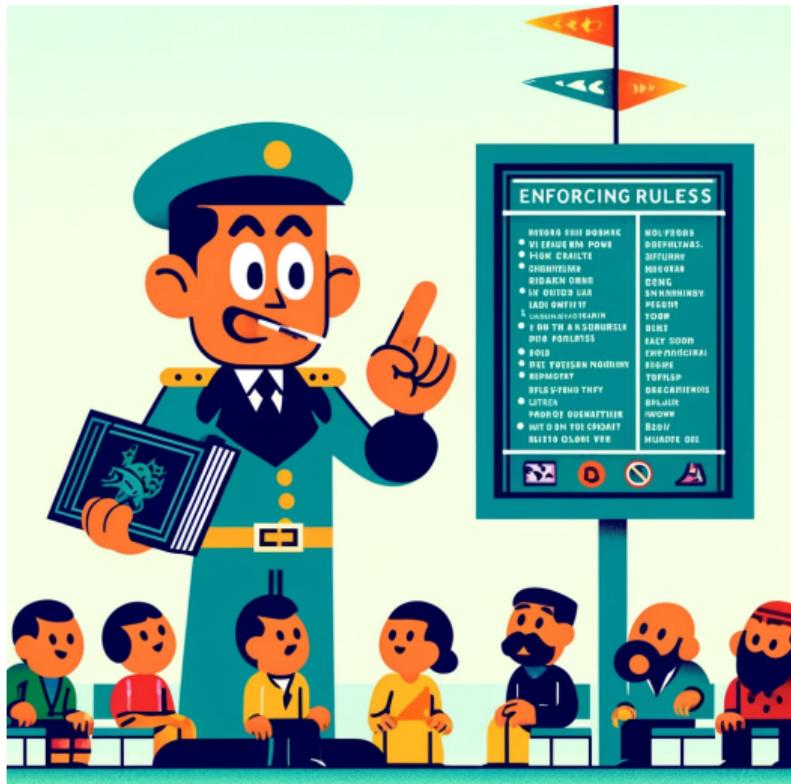
Deadline

Presentation and data must be submitted 9AM
May 9th



Rules for the Hackathon

- ▶ play fair!
- ▶ only use data provided in your challenge
- ▶ do not use other groups results
- ▶ use only the computation time you need
- ▶ do not use more presentation time as everyone else
- ▶ discuss publication with mentor and project mentor



Happy Hacking!

Unlock the Secrets of Molecules with AI

The Lives & Deaths of Stellar Binaries

► Room Stuart 104

► Room JCL 298