

Hackathon

AI Agents for Life Sciences

When



Day 1: October 14, 9:00-17:00

Day 2: October 15, 9:00-16:30

Where



Biolabs Heidelberg

Nikola-Tesla-Str. 1
69124 Heidelberg

All sessions will be hands on—please bring a laptop.

Day 1

9:00 | Registration
9:30 | Intro coaches and host, short intro of participants and assignment of teams
10:00 | AI agents for life science tasks and Q&A
10:30 | Coffee break
10:45 | Assigning tasks to teams
11:00 | Intro and setup with Code Ocean
11:30 | Hackathon session #1
12:30 | Lunch
13:30 | Hackathon session #2
14:30 | Status update and Q&A
15:00 | Coffee break
15:30 | Hackathon session #3
17:00 | End of Day 1

Day 2

9:00 | Status update and Q&A
9:30 | Coffee break
9:45 | Hackathon session #1
12:15 | Status update and Q&A
12:30 | Lunch
13:30 | Hackathon session #2
15:00 | Coffee break
15:30 | Final status – Team Presentations
16:00 | Hackathon Closing
16:30 | End of day 2

What to expect?

Participants will collaborate in small teams, working with a template large language model (LLM) such as LLaMA-3 and Mistral along with a retrieval-augmented generation (RAG) framework built on the Code Ocean Capsule and integrated with AWS. Teams will enhance the Capsule with new capabilities to tackle complex data science challenges relevant to the life sciences research community. For example, connecting LLaMA-3 with scGPT to enable one to ask questions of single-cell sequencing data. Coaches will be available both onsite and online to offer guidance, while expert judges from the pharmaceutical and biotech sectors will evaluate and provide feedback on the final results.

Who should participate?

We recommend participants to have some python coding experience and some background in bioinformatics, data science, or computer science, and a strong interest in solving problems in the life sciences related to the pharmaceutical and biotech industries. We encourage participants to join us onsite for free food and drinks, but we will have a hybrid option to provide flexibility to those who cannot make it in person on both days.

Scan the QR code to register or visit the link below.



<https://codeocean.com/hackathon-biomed-x-codeocean>

For any inquiries, please contact us at HackathonVPE@bio.mx

