



Module 9

Phase 2 Hackathon Workshop 1

Your Safety & Support at Multiverse

Safeguarding is:

- Protecting you and everyone around you from harm, neglect, or abuse.
- Ensuring everyone has the best chance to learn and succeed.

Prevent is:

- ...a part of safeguarding: Stopping people from being drawn into extremism.

To report anything to the Safeguarding team, contact them at safeguarding@multiverse.io
In an emergency, always call 999.



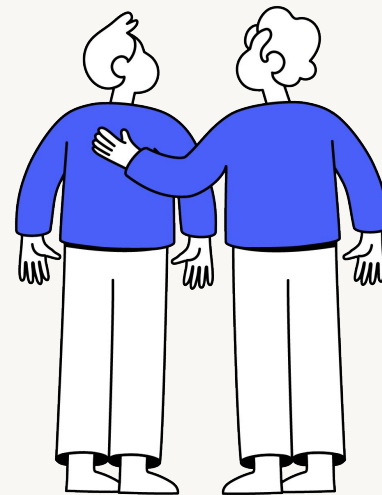
Workshop Norms

- 1 **Participation:** Questions and contributions enrich our discussions!
- 2 **Respect:** Listen to each other and acknowledge different viewpoints.
- 3 **Technical norms**

Feel free to use the chat box and raise your hand.

Please mute yourselves while not speaking.

If you are able to, please have your video on.





Agenda

- Overview and hackathon logistics
- Group work on hackathon challenge
- Applying key takeaways
- Next steps

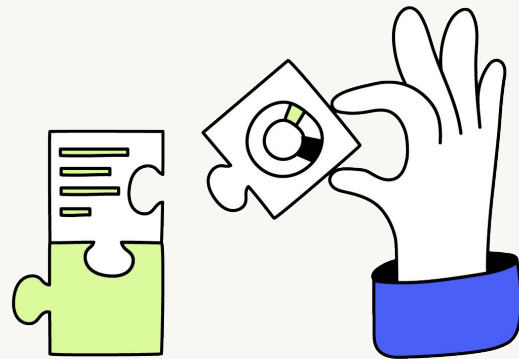


Overview & hackathon logistics



The areas you'll work through

- **Model implementation:** Translate your proposed solution into a working ML workflow using code, datasets, and baseline models.
- **Model evaluation:** Generate predictions, apply evaluation metrics, and assess how effectively the model supports the business objective.
- **Iteration and improvement:** Experiment with features and modelling approaches to improve performance and compare results.
- **Model interpretation and limitations:** Analyse where the model performs well or struggles and connect outcomes back to business impact.





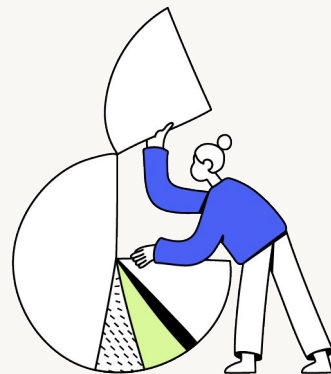
Hackathon schedule

Workshop	Activities
Workshop 1	Your first work block to implement, test, and evaluate an initial ML solution.
Workshop 2	Your second work block to refine, compare, and justify your ML approach.
Wrap up	Presentations, feedback, celebration and key takeaways

From problem exploration to solution design

You've already explored the problem and proposed an AI/ML solution in Hackathon 1. Now focus on:

- Translating your proposed solution into a working ML workflow.
- Testing, evaluating, and improving your model through experimentation.
- Recording observations, decisions, and trade-offs as your solution evolves.
- Remembering, there is no single "right" answer.





Group work: Sprint 1

Group work: Sprint 1

Your tasks:

- Implement and train an initial ML model **using the working notebook** for your chosen scenario.
- Generate predictions and evaluate model performance using appropriate metrics.
- Experiment with at least one meaningful change to improve or compare approaches.
- Use the presentation template** to capture observations about model performance.





Group work

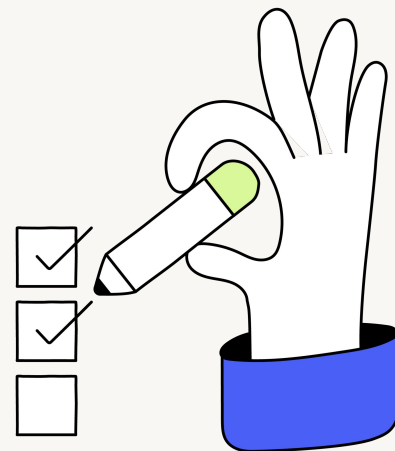
Go to My Multiverse, Module 9,
Workshop 1



Navigate to the **"Challenge instructions"**
page



**Follow the instructions provided
to complete the tasks**



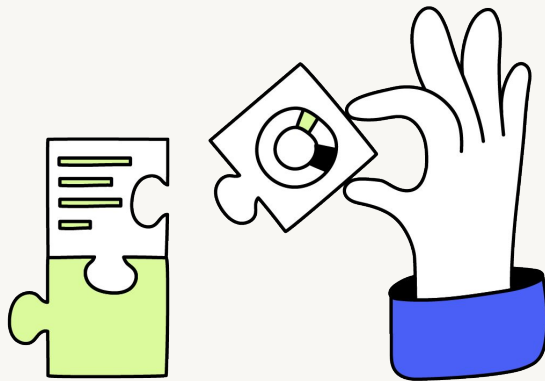


Next steps

Next steps in the hackathon

In the next hackathon workshop, you will:

-  Refine and improve your ML solution.
-  Compare approaches, interpret results, and justify your final decisions using evidence and business context.

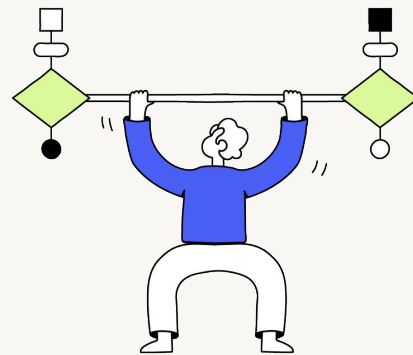




Applying **key** **takeaways** to your organisation

Applying key takeaways

- 1 Start with a workable first solution:** Test assumptions early, and use initial results to guide next steps.
- 2 Learn from early results:** Use data and early evaluation results to assess effectiveness, observe the impact of changes, and identify opportunities for improvement.





Next Steps

- **Next workshop:** Phase 2 Hackathon - Workshop 2
- **Have questions?**
 - Chat with Atlas
 - Reach out to your Cohort Coach
 - Sign up for Tutoring
- **Log your OTJ hours**
- **Take the Survey** on My Multiverse

multiverse