



## Module 6

# Wrap-up Workshop



# Icebreaker- Rapid-Fire Recall

In 30 seconds, list as many model training terms as you can!



## Module 6

# Wrap-up Workshop



# Agenda

- **Key takeaways**
- **Finding opportunities and generating impact**
- **Project check-in**
- **Q&A**
- **Wrapping up and next steps**
- **Module 7 preview: Optimising Models**



# Module 6

## key takeaways



# Key takeaways

1

**Strategic model selection and implementation** enables you to build solutions that are tailored to specific business needs — this leads to smarter outcomes, faster performance, and greater value.

2

**Advanced model optimisation techniques** help you tune performance with precision. These aren't just academic — they help you meet time, cost, and resource constraints while still delivering strong results.

3

**Bias detection and reduction** is not just about ethics — it's essential for trust, inclusion, and performance. You now have tools to spot and correct imbalances before they do harm.



**What key takeaway do you think will have the biggest impact on your work?**



# Applying key takeaways

- 1 Select the right ML model to match business goals and data needs
- 2 Optimise training for performance, speed, and efficiency
- 3 Detect and address bias to ensure fair, ethical outcomes



# Share your plan to apply Module 6 skills

Go to My Multiverse, Module 6  
Wrap-up Workshop



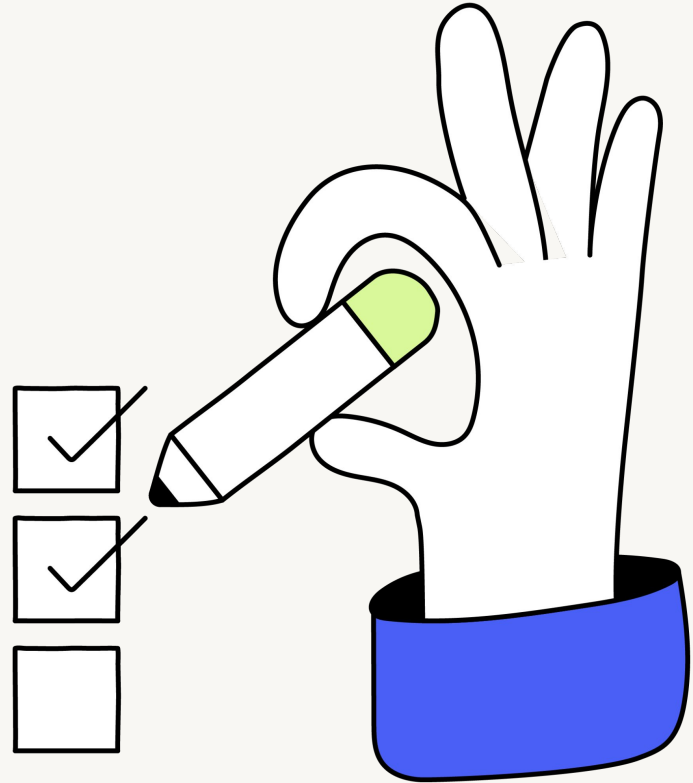
On page "Applying your skills", find the  
discussion activity



Take 5 minutes to share how you will  
apply this skill in your role



Take time this week to read what  
others have written and get new ideas!





# Phase 2 project

**Module 6 milestone**

# Access phase 2 project milestone

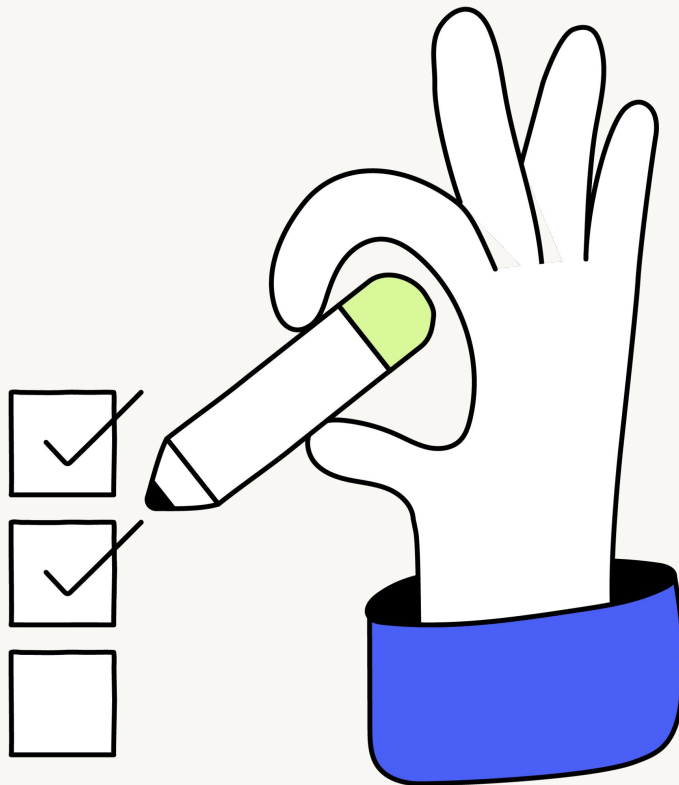
Go to My Multiverse, Projects



Find "AIMLF Phase 2 Project: Milestone 6"



Review milestone tasks





# Module 6 milestone: Model engineering and training

**Phase project objective:** Build and refine an ML model for performance, fairness, and security. Use XAI to address bias, define key metrics, and ensure full compliance with robust documentation and retraining plans.

## Milestone task 1



**Model development and training fundamentals:** Build and train an initial version of the ML model using the refined dataset from Phase 1. Experiment with different algorithms and hyperparameters to determine the most effective approach.

## Milestone task 2



**Training process optimisation:** Optimise the training process by systematically tuning hyperparameters, adjusting dataset sampling techniques (e.g., oversampling, undersampling, stratified sampling), and experimenting with advanced training techniques (e.g., transfer learning, ensemble methods, if relevant to your chosen algorithm and problem).

## Milestone task 3



**Identifying sources of bias and mitigation:** Evaluate the model for algorithmic bias by analysing dataset imbalances, prediction disparities across different subgroups (if relevant to your data and problem), and relevant fairness metrics (e.g., demographic parity, equalised odds).

## Module 6 milestone: KSB requirements

**Phase project objective:** Build and refine an ML model for performance, fairness, and security. Use XAI to address bias, define key metrics, and ensure full compliance with robust documentation and retraining plans.

### Task 6 KSBs



**Model development and training fundamentals:** K19, S12

### Task 7 KSBs



**Training process optimisation:** K19, S12, B5

### Task 8 KSBs



**Identifying sources of bias and mitigation:** B5, K20

## Module 6 milestone tips for success

1 Make it reproducible, not just repeatable.

2 Test smart, not just often.

3 Don't just fix bias—prove it.





# Questions?



# Wrapping up

## Action items

- Attend Group Coaching session
- Complete your project milestone
- Share your project progress with your manager
- **Take the Module Survey** on My Multiverse



# Next steps

## Action items

- **Have questions?**
  - Chat with Atlas
  - Reach out to your Cohort Coach
  - Sign up for Tutoring
- **Log your OTJ hours**
- **Take the Module Survey** on My Multiverse



# Looking ahead

## Module 7: Data Security, Privacy, and Governance

# multiverse