



Module 8

Wrap-up Workshop

Icebreaker- Model Metrics Match-Up

Match the metric to what it measures:

1. Precision
2. Recall
3. F1 Score
4. Accuracy



Module 8

Wrap-up Workshop



Agenda

- **Key takeaways**
- **Finding opportunities and generating impact**
- **Project check-in**
- **Q&A**
- **Wrapping up and next steps**
- **Module 9: Data Security, Privacy, and Governance**



Module 8

key takeaways

Key takeaways

1

Strategic performance metric selection enables precise evaluation of ML models across diverse contexts, ensuring alignment with business objectives and maximising stakeholder value.

2

Model optimisation techniques transform good models into exceptional models that balance technical performance with business requirements to deliver high-impact ML solutions.

3

Understanding bias-variance tradeoff analysis empowers you to optimise model complexity, creating robust ML solutions that generalise effectively to new data while avoiding overfitting.



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



Applying key takeaways

1

Use precision metric selection to evaluate your models effectively based on business context and stakeholder needs.

2

Apply model optimisation strategies to improve performance while aligning with real-world constraints like time and cost.

3

Use bias-variance tradeoff analysis to ensure your models generalise well and remain robust over time



Share your plan to apply Module 8 skills

Go to My Multiverse, Module 8
Wrap-up Workshop



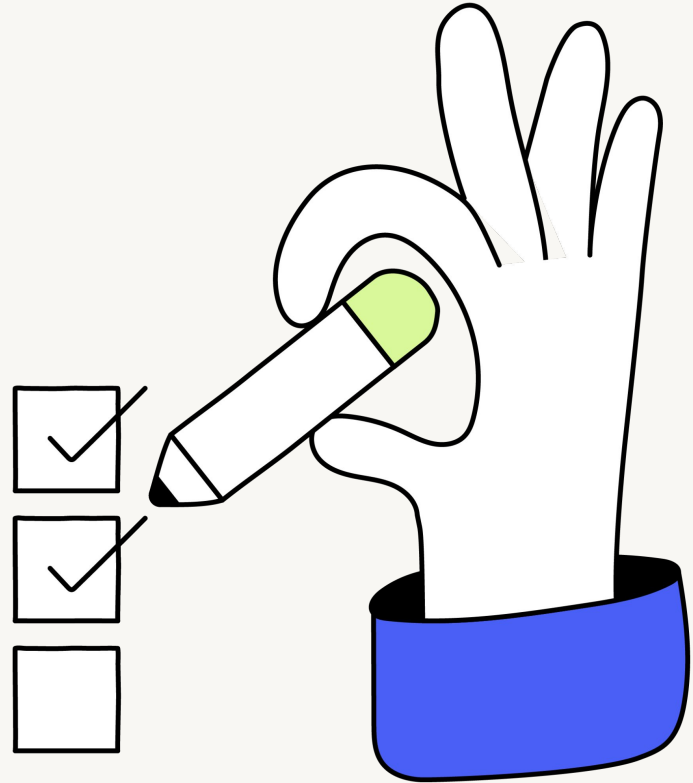
On page "Applying your skills", find the
discussion activity



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 8 milestone

Access phase 2 project milestone

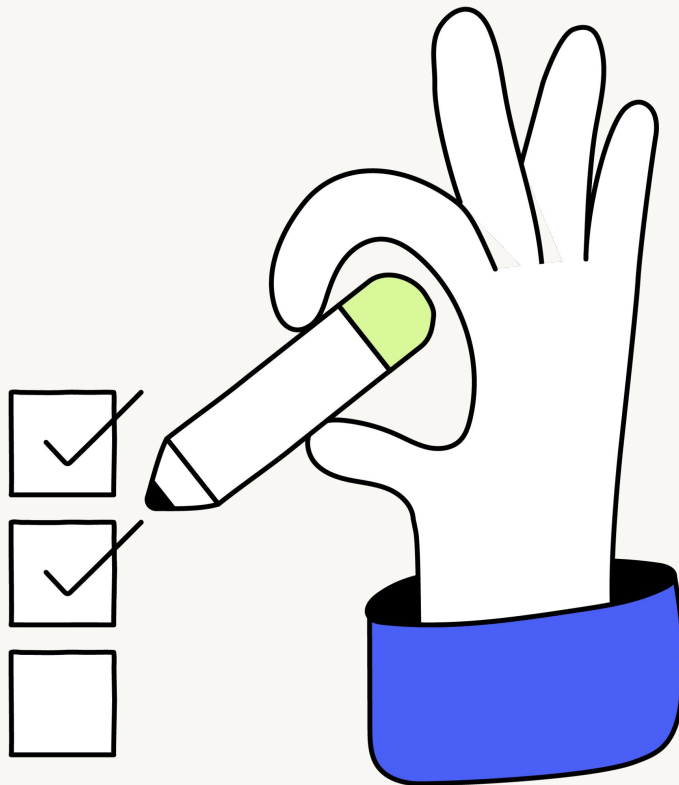
Go to My Multiverse, Projects



Find "AIMLF Phase 2 Project: Milestone 8"



Review milestone tasks



Module 8 milestone: Model evaluation

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



Performance metric selection and implementation: Define and implement appropriate performance metrics based on the business problem and model type.

Milestone task 2



Performance optimisation and model refinement: Analyse model performance results and refine the model to improve efficiency, accuracy, and reliability.

Milestone task 3



Bias-variance tradeoff analysis: Evaluate the balance between model complexity and generalisability by analysing the bias-variance tradeoff.

Module 8 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 1 KSBs



Performance metric selection and implementation: None

Task 2 KSBs



Performance optimisation and model refinement: None

Task 3 KSBs



Bias-variance tradeoff analysis: None

Module 8 milestone tips for success

- 1 Choose metrics that matter
- 2 Dig into your model's blind spots
- 3 Balance complexity with generalisation
- 4 Visualise and communicate clearly





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 9: Data Security, Privacy, and Governance

multiverse