Module 3

Kickoff Workshop

Icebreaker

ML or Magic?

Observe this list of technologies—some are powered by machine learning, some completely fictional. Guess whether each one is real (ML) or fiction (Magic)!

Examples:

- AI that generates music based on your mood
- An app that translates dog barks into human language
- A mirror that predicts your outfit choices based on your calendar
- A system that detects emotions from text messages and adjusts responses accordingly

Agenda

- Welcome and Introduction
- Module Overview
- Applying Module Skills
- Project Overview
- Q&A
- Next Steps

Module overview

Your learning journey

Week 1	Kickoff Workshop	Async Unit 1	Live Workshop 1	
Week 2	Async Unit 2	Async Unit 3	Live Workshop 2	Wrap-Up Workshop
Week 3	Group Coaching			
Week 4	Project tasks			

Module skills: from learning to applying

Develop a comprehensive understanding of the ethical challenges in AI and ML, including privacy concerns, bias mitigation, and responsible data usage.	Apply this skill by implementing bias detection frameworks, ensuring privacy-compliant data collection, and advocating for responsible AI policies in your organization.
Develop comprehensive strategies for managing data to ensure fairness, transparency, and accountability in ML models, focusing on ethical data practices, secure data handling, and responsible data governance throughout the ML lifecycle.	Use this skill to establish clear data governance policies, enforce ethical data sourcing, and design transparent ML pipelines that align with regulatory requirements.
Learn to develop ML and AI solutions that consider long-term societal and environmental impacts, ensuring sustainable and responsible ML and AI development.	Leverage this skill to build AI models that minimize environmental impact, prioritize fairness in decision-making, and align with corporate social responsibility goals.

Skill 1 in the real-world

Understanding ethical challenges in AI and ML, including privacy, bias, and responsible data use.

The Dutch childcare benefits scandal exposed how biased AI algorithms falsely flagged thousands of families for fraud, leading to severe financial and emotional distress.

If ethical AI principles had been followed, the system could have ensured fairness, prevented discrimination, and safeguarded vulnerable communities from unjust consequences.

Organizations can implement bias detection tools, conduct regular fairness audits, and establish clear AI ethics policies to prevent similar harms and promote responsible AI use.

Applying module skills to your workplace

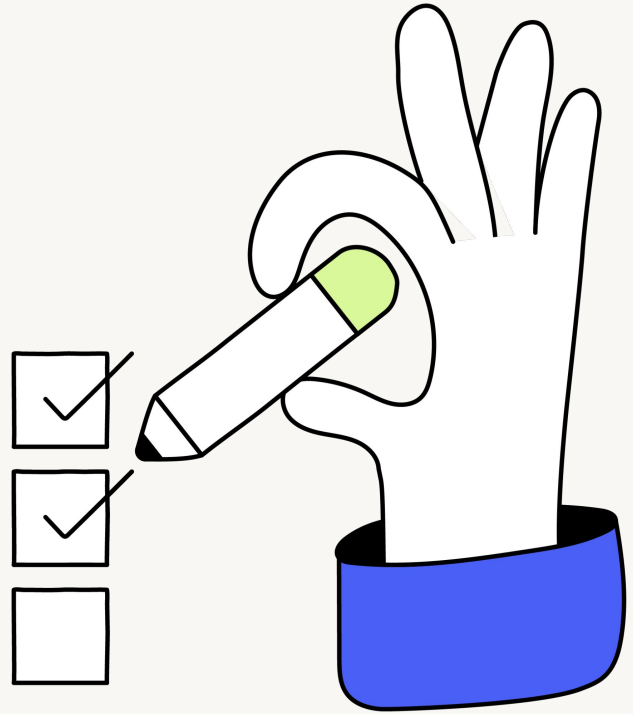
Skills application brainstorm

Choose a module skill and think of 3 ways to apply it in your role

Choose the best potential application

Create a post for the group explaining how you'd like to apply this skill this month

Post your explanation in the Skill Application Brainstorm discussion board



Skill application share out

1. What was the biggest challenge you faced in this activity?

2. Did anything surprise you?

3. How do you see this skill benefiting you in your role?

Project overview

Phase 1 Project: Scoping your ML/AI solution

Project objective: Identify a pressing business challenge or opportunity within your organization that can be addressed using machine learning and artificial intelligence.

Module 1 milestone: Fundamentals of ML and AI

Module 2 milestone: Solving Business Problems with Machine Learning

Module 3 milestone: Data Ethics and Responsible AI

Module 4 milestone: Data Preparation and Feature Engineering

We are here!

Module 3 milestone: Data Ethics and Responsible AI

Milestone task 1

Data governance and compliance alignment
Outline your organization's data governance policies, including relevant regulations and standards, and explore their influence on your work. Assess their impact on your proposed ML/AI solution and how they will be applied to ensure compliance and ethical AI development.

Milestone task 2

Ethical risk assessment
Conduct an ethical review of your proposed ML/AI solution, assessing potential risks in data collection and usage, including data bias, algorithmic transparency, and privacy concerns. Develop proactive strategies to mitigate these risks throughout the solution's lifecycle

Module 3 milestone: KSB requirements

Phase Project objective: Identify a pressing business challenge or opportunity within your organization that can be addressed using ML and AI.

Task 1 KSBs → **Data governance and compliance alignment:** K24

Task 2 KSBs → **Ethical risk assessment:** K26, B4

Questions?

Closing out

- **Action items:** Async Unit 1
- **Have questions?**
  - Chat with Atlas
  - Reach out to your Cohort Coach
  - Sign up for Tutoring
- **Log your OTJ hours**
- **Take the Workshop Survey** on My Multiverse

multiverse