The Armely Hackathon Handbook.

PREPARED FOR: AIESEC IN MOI YOUTH MONTH

PREPARED BY: Armely .

November 17, 2025

armely | DATA PORTAL CLOUD

BEYOND IMAGINATION

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YOUTH MONTH 2025: "AN ECO REVOLUTION"

Presented by Armely, in partnership with AIESEC in Moi University

A MESSAGE FROM ARMELY

At Armely, we believe in the power of imagination , and the impact it creates when paired with courage and purpose.

The **Youth Month 2025 Hackathon** is a celebration of that power. It's a space for builders, dreamers, and doers to come together and explore how technology can make the world more sustainable, equitable, and intelligent.

This is an invitation to create. To think differently. To build something that leaves a mark.
We believe every great idea begins with a simple question: *"What if?"*
And when that question meets collaboration, mentorship, and the right tools , it becomes innovation.

Our role at Armely is to support, guide, and amplify your journey. We're here to share knowledge, create connections, and help ideas grow into real-world impact.
Because imagination is where it starts. But building *Beyond Imagination* is where it becomes extraordinary.

Let's innovate together , for a greener, smarter, more sustainable tomorrow.

ABOUT THE HACKATHON

Theme: *An Eco Revolution – Empowering Youth for Green Economies*
Duration: October 21 – November 28, 2025
Award Ceremony: November 28, 2025
Mode: Hybrid – YouTube, Discord, GitHub
Organized by: Armely, in partnership with AIESEC in Moi University

The **Eco Revolution Hackathon** is a three-week innovation journey designed to help students explore how artificial intelligence, data, and automation can be used to create solutions for a sustainable future.

Participants will gain hands-on experience with Microsoft technologies , **Copilot Studio**, **Microsoft Fabric**, and **Azure AI Foundry** , through guided training, mentorship, and collaborative building.

OUR VISION

Technology becomes powerful when it solves human problems.
Our vision for this hackathon is to nurture that kind of innovation , practical, ethical, and purposeful.

We want participants to:

- Learn by doing
- Build projects that matter to real communities.
- Collaborate, experiment, and fail forward.
- Leave with the confidence that innovation is something they can lead, not just follow.

This experience is about **growth, creativity, and shared learning**.

FOCUS PILLAR: GREEN INNOVATION AND SOLUTIONS

The hackathon aligns with the **Youth Month 2025 Pillar: Green Innovation and Solutions**, exploring how technology can drive circular economies, sustainability, and environmental protection.

Key Tracks

1. **Climate Tech & Agri-Tech:**
   Innovate around renewable energy, sustainable agriculture, and environmental data insights.
   Example ideas: smart irrigation, AI for crop health, carbon-tracking dashboards.
2. **Green Entrepreneurship & Circular Economy:**
   Create solutions that transform waste into opportunity and promote responsible production.
   Example ideas: recycling marketplaces, green finance tools, reuse-and-repair systems.
3. **Carbon Awareness & Offsetting:**
   Build apps that measure, visualize, and reduce carbon footprints.
   Example ideas: gamified carbon tracking, tree-planting networks, sustainability challenges.

TIMELINE OVERVIEW

Phase	Dates	Focus	Lead Trainers	Platform
Week 1	Oct 21 – Oct 25	Copilot Studio: Agentic AI & Automation	**Edgar Ochieng'**	YouTube + Discord
Week 2	Oct 28 – Nov 1	Microsoft Fabric: Data for Sustainability	**Sammy Chesire & Martin Wambui**	YouTube + Discord
Week 3	Nov 3 – Nov 7	Azure AI Foundry: AI Models & Deployment	**Malvin Owuor**	YouTube + Discord
Project Development	Oct 21 – Nov 25	Independent Building & Mentorship	Armely Mentors	Discord + GitHub
Final Submission	**Tue, Nov 25 (Midnight)**	Submit Final Project	All Teams	GitHub Repository
Evaluation & Awards	Nov 26 – 28	Review & Showcase	Armely + AIESEC	Hybrid Event

TRAINING EXPERIENCE

WEEK 1 – COPILOT STUDIO (LED BY EDGAR OCHIENG')

Focus: Designing intelligent agents that solve real-world problems.
You'll learn how to build conversational AI systems, automate workflows, and integrate Power Automate to deliver

environmental and community impact.
Mini Project: Create a chatbot that educates users about personal carbon reduction tips.

WEEK 2 – MICROSOFT FABRIC (LED BY SAMMY CHESIRE & MARTIN WAMBUI)

Focus: Using data to tell stories that inspire change.
Participants will learn to ingest, clean, and visualize data in Microsoft Fabric, building sustainability dashboards that drive insight and action.
Mini Project: Build a dashboard showing the relationship between energy consumption and renewable investment.

WEEK 3 – AZURE AI FOUNDRY (LED BY MALVIN OWUOR)

Focus: Turning AI ideas into working prototypes.
You'll explore AI model creation, evaluation, and deployment , learning how to build predictive systems that support sustainability efforts.
Mini Project: Create a model that forecasts renewable energy potential based on weather data.

COLLABORATION PLATFORMS

- **YouTube:** Weekly 1-hour live sessions.
- **Discord:** Community hub for questions, collaboration, and mentorship.
- **GitHub:** Central repository for code, documentation, and submissions.

All resources, updates, and recordings will be shared on these platforms.

THE CHALLENGE

From the first day, you'll start thinking about your project , a real, tangible solution you can prototype within the three weeks.

You can build solo or in a team of up to four. Choose any platform, any idea, as long as it connects to our theme: green innovation powered by technology.

We don't want perfect projects. We want purposeful ones , things that show your thinking, your creativity, and your understanding of the world you're trying to change.

PROJECT GUIDELINES

Teams: Work solo or in teams of up to Four.
Projects can use any technology stack but should align with the sustainability theme.

Required Deliverables

- Your final submission (due Tuesday, November 11 at midnight) will include:
- **Source Code** – hosted on Armely's GitHub.
- **5-Minute Video Pitch** – showcase your idea, problem, and impact.
- **Documentation (1–2 pages)** – explain your approach, innovation, and technology used.

Focus on

- Originality and creativity
- Real-world application
- Simplicity and clarity
- Impact and scalability

JUDGING CRITERIA

Category	Description	Weight
Impact	Relevance and potential to create environmental or social benefit	30%
Innovation	Creativity and originality of the solution	25%
Technical Execution	Functionality, design quality, and usability	25%
Presentation	Clarity, storytelling, and persuasiveness	10%
Scalability	Feasibility and potential for long-term growth	10%

AWARDS & RECOGNITION

The Hackathon Champion 2025

- Microsoft Certification Voucher
- Trophy & Certificate of Excellence
- Mentorship Program with Armely Engineers
- Feature on Armely's Website, GitHub, and Social Media

While only one team will win, all participants will receive digital certificates and continued access to Armely's mentorship network.

BEYOND IMAGINATION

To go *Beyond Imagination* is to:

- Build technology that serves people, not the other way around.
- Dream boldly and deliver responsibly.

That's what we stand for.
That's what this hackathon represents.
And that's what we can achieve, together.

– The Armely Team
Empowering innovation. Inspiring impact. Going *Beyond Imagination.*