

# 2025 Technology AI Hackday

## Challenges

- Jump to the path that matches your role or interest. In the coders path you can pick one of the three available challenges.
- Build something meaningful and maintainable, with tests when it makes sense. Any language or framework is fine. Ship a basic version first, then explore.
- Keep experimenting: share tips in #ai-hack-lounge. If you finish early, extend your build with your ideas or pick another challenge.

### Coders path

#### ✓ Memory Game

- Goal: a playable card matching game with a shuffled grid and a win state.
- Starter steps
  - Render a small grid, flip cards, detect matches, show win.
  - Pick a theme: simple colors, or data from a public API such as SWAPI (Star Wars), PokéAPI, or a flags API.
- Ideas to extend
  - Multiplayer lobby with turns and score.
  - Headless API plus a simple CLI client.
  - Optional MCP server so an agent can play Easy or Hard mode.

#### ✓ Board Game – from Checkers to Chess

- Goal: turn based board game with legal moves and win detection.
- Starter steps
  - Implement Checkers pieces, movement, captures, and end state.
  - Keep the UI minimal.
  - Add unit tests for piece move rules.
- Ideas to extend
  - Add per move hints or undo.
  - Level up to basic Chess movement if time permits.

#### ✓ Expense tracker – CRUD plus charts

- Goal: track expenses with create, edit, delete, filter, and simple charts.

- Starter steps
  - In memory data: amount, category, date, description, tags.
  - Views: add expense, list, filter, export CSV.
- Ideas to extend
  - Monthly budgets with gentle warnings.
  - Recurring items.
  - CLI client and a thin REST API.
  - Expose an MCP server so you can add and manage expenses by talking to an agent.

### SREs path

#### ✓ Alert triage companion for Slack

- Goal: reduce manual toil by automating first pass, read only checks.
- Starter steps
  - Listen to a Slack channel or slash command that receives an alert payload. Note: Developer sandboxes are fine. If Slack blocks you, skip it and focus on the checks.
  - Perform safe queries only: cluster or service status, recent deploy info, links to dashboards.
  - Reply in thread with a severity guess, top 3 checks, and next steps.
- Ideas to extend
  - Be creative.

### QA path

#### ✓ AI powered E2E testing

- Goal: explore AI agent capabilities in browser automation using Copilot plus Playwright or Selenium or Browserbase.
- Starter steps
  - Using an empty project for now, configure GitHub Copilot in VS Code or use Copilot CLI.
  - Add the Playwright MCP server to Copilot.
  - Experiment with autonomous navigation on a product. Use staging credentials if available.
- Ideas to extend
  - Discover the limits: how aware is the agent of page changes, and how does it sync instructions with dynamic content.
  - Capture what works, what does not, and any surprises.

- Use the agent to create a suite of tests. Refactor toward a clear structure, reusable objects, and a Page Object Model.

## IT path

### ✓ AI Inventory Q&A (MCP)


- Goal: ask natural language questions about device inventory and get concise answers.
- Starter steps
  - Connect Copilot CLI to a JumpCloud MCP setup and verify read only queries work.
  - Ask questions like: show the latest 10 Macs enrolled, which Windows laptops are missing patch X, or devices by OS.
- Ideas to extend
  - Be creative.

## Key facts

- **Date** Oct 24, 2025
- **Kickoff** 09:00 CEST join live for announcements and guidance
- **Wrap** End of the next day (for async/time-zone flexibility)
- **Expected hands-on time:** ~6 hours of focused building within the event window
- **Format** Individual
- **Location** Remote
- **Slack channel** Hub for check ins, Q and A, and sharing demos: [#ai-hack-lounge](#)
- **Audience** All technology team.

⚠ All Technology team will join the event. Please, discuss with your line manager if you believe you may be unable to participate.

## Setup needed


- **Work laptop, editor** and a reliable internet connection
- **GitHub Copilot license** To be able to use Github Copilot with your IDE or via CLI. [Ask for one](#) if you don't have it.
- **Browser access to**  [Google Gemini](#) for manual tasks (if needed)
- **Slack desktop or web app** you will post quick updates and your final demo in the event channel

✓ Install check

1. Open VS Code and confirm Copilot Chat responds. If you use don't use VS Code, go to 2.
2. Install Copilot CLI to run copilot in your terminal (recommended)


## How the day runs

- **09:00 CET** Join kickoff we will share the rules of the day and reveal the challenge menu.
- **09:15 CET** Choose your challenge. All options fit the timebox and are individual.
- **Build with AI** use GitHub Copilot in the IDE or Copilot CLI. You may use Gemini in the browser for non automated tasks.
- **Check in on Slack every 1 to 2 hours** [post a short note](#) and one screenshot or short clip
- **Post your final demo** using the provided [Slack Workflow](#) a short write up and a screenshot or link is enough
- **Wrap and lightning shares** we will spotlight a handful of entries and share resources

 The event is async, so depending on your timezone, you have to adapt your start/ending times. Any session will be recorded.

## Ground rules

- **Keep it individual** collaborate in Slack for tips and support, but each entry is solo
- **Review your code** treat AI suggestions like any code snippet: validate, test, and review
- **Be kind and inclusive** follow the company code of conduct and be respectful in channel threads

 Use approved AI tools only

GitHub Copilot products (via IDEs or Copilot CLI), and Gemini in the browser.  
Do not use unapproved third party AI services.

## Submission checklist

Regularly share your progress in [#ai-hack-progress](#) using the Slack workflow attached to the channel to show off your current progress and enable us to track overall progress and support where required.



Start Workflow

## Prizes

- **Pizza voucher or equivalent.** Order food, expense it in Concur, and we will reimburse you. Use "AI Hackday" as the Business Purpose.
- **T-shirt** for every participant that submits the work at the end of the day (no matter how it is).
- **Recognition prizes**, small and motivating, aimed at encouraging learning and fun over rivalry.

## Support and help

- **Live help windows** we will publish drop in times during the kickoff
- **Slack first** ask in [#ai-hack-support](#) and tag [@Jonathan Hernandez](#)
- **Pre event primer** we will host a session on Tuesday Oct 21, 2025 (11:00 CEST) about AI adoption and embedding/experimentation by Dr. Mark Bloomfield.