SESSION 12 REFERENCE GUIDE

Session 12: Demo Day

AI + Research Level 2 — Supplementary Material

Concept: REFLECTION AND PORTFOLIO
Space: No new Space — student presentations and portfolio compilation
Pre-session prep: Wake ALL student Spaces 30+ minutes before session. Load each Space URL in a browser tab. Have screenshots of each Space as backup in case any fail to load. Prepare the portfolio template (see `portfolio-template.md`).

Time Breakdown (2 hours)

0:00–0:10 — Setup and Tech Check

Open each student's Space URL in tabs. Quick check:
- Does each Space load?
- Is the student ready to present?

If a Space won't load:
- Check if it's still building (Files tab → check build log)
- If the Space was deleted or broken, use a screenshot and let the student talk through what it did
- Don't let a tech issue derail the session — the story matters more than a live demo

Order of presentations: Let students volunteer, or go in reverse alphabetical order (so the same students don't always go first/last). Have the order ready before session starts.

Say: "Tonight is your night. Each of you built something that lives on the internet — a real AI tool with a real URL. Let's see what you made."

0:10–1:20 — Student Presentations

5-7 minutes per student. With 5-6 students, this takes 25-42 minutes, leaving buffer for transitions and group testing.

Presentation format (share this on screen):

```
1. WHAT IT DOES (30 seconds)
   - One sentence: what does your Space do and who is it for?

2. LIVE DEMO (2 minutes)
   - Show it working with 2-3 inputs
   - Show one input where it works great
   - Show one input where it struggles

3. UNDER THE HOOD (1 minute)
   - What model did you use? Why that one?
   - What Gradio pattern did you use?

4. THE HARD PART (1-2 minutes)
   - What broke? What was the hardest problem?
   - How did you fix it (or work around it)?

5. WHAT'S NEXT (30 seconds)
   - If you had another month, what would you add or change?
```

After each presentation:
- Group tries the Space with their own inputs (1-2 minutes)
- One round of applause (seriously — they built this)
- Instructor highlights one specific thing they did well

Instructor notes during presentations:
- Write down each student's Space URL and one highlight for the portfolio
- Note any concepts the student demonstrates understanding of
- If a student is nervous, prompt them: "Tell us about that model — why did you pick it?"
- If a student finishes early, ask: "What was the most surprising thing you learned?"

1:20–1:40 — Reflection

Group discussion. Go around the room (screen) for each question.

Reflection questions:

1. **"What concept surprised you most?"**
   - Prompt: "We covered 10 concepts — from INPUT→MODEL→OUTPUT all the way to building from scratch. Which one changed how you think about AI?"

2. **"What was the hardest thing you built?"**
   - Prompt: "Not just code — the hardest decision, the hardest bug, the hardest design choice."

3. **"How has your understanding of AI changed since Session 1?"**
   - Prompt: "Remember the first night? We looked at 4 Spaces and you didn't know how any of them worked. What do you know now?"

4. **"What would you build next?"**
   - Prompt: "If you had unlimited time and any model on the Hub, what Space would you create?"

The 10 concepts — quick recap:

#	Concept	Session	How They Learned It
1	INPUT → MODEL → OUTPUT	1	Built their first Space
2	Training Data & Representation	2	Swapped models, got different answers
3	Data Cleaning	3	Broke the Space on purpose, then fixed it
4	Model Evaluation	4	Ran 3 models on the same input
5	Hyperparameters	5	Added sliders, saw output change
6	Overfitting & Domain Shift	6	Same model, different text types
7	Bias in AI	7	Paired sentences, different scores
8	Multi-Model Systems	8	Chained image captioning + sentiment
9	Prompt Engineering & UX	9	Redesigned a Space for a real audience
10	Supervised Learning & Task Design	10	Built from scratch, chose their own model

Say: "You didn't learn these from a textbook. You learned them by running into them. That's how real practitioners learn too."

1:30–1:40 — Reflection Notebook

Share the Colab notebook link in the Zoom chat. Students open it and fill in their portfolio and reflections.

What they do:
- Fill in the portfolio table (HF profile, GitHub profile, Spaces they built)
- Answer the reflection questions (concept that surprised them, hardest part, what they'd do next)
- Check the GitHub portfolio checklist

Instructor role: Help students remember their Space URLs. Screen-share each student's HF profile page so they can see all their Spaces listed. This is a quiet, reflective moment — give it space.

If time is short: Just have them fill in the portfolio table. The reflection questions can be done after the session.

1:40–1:55 — Portfolio Consolidation

Help each student compile their portfolio. Use the portfolio template (`portfolio-template.md`).

What to collect for each student:
1. Their HF profile URL (huggingface.co/username)
2. URLs for every Space they built or forked
3. A one-sentence description of their final project
4. Which concept they found most interesting

How to compile:
- Screen-share the portfolio template
- Fill it in together for each student (takes ~2 minutes per student)
- Save as a PDF or share the markdown with Bing as the deliverable

Deliverable for Bing: One document per student with their Space URLs, descriptions, and reflection. This is the consolidated portfolio the program director wants.

If time is short: At minimum, collect the Space URLs and one-sentence descriptions. The reflection can be added later.

1:55–2:00 — Wrap-Up

Say:
- "You each have public URLs that anyone in the world can visit. That's your portfolio."
- "You understand 10 real ML concepts — not because someone lectured you, but because you built things and hit problems."

- "The next time someone shows you an AI tool, you'll know what's happening under the hood: what goes in, what model runs, what comes out, and what could go wrong."

Thank the students. Thank Bing (program director). Congratulate everyone.

Final moment: Open each student's Space one more time on the shared screen. One URL per student, visible to the group. "These are yours."

What Could Go Wrong

Problem	Fix
Student's Space won't load (asleep/broken)	Have screenshots ready. Let them present from the screenshot and talk through what it did.
Student is too nervous to present	Offer to co-present: you share the screen and drive, they narrate.
Presentations run long	Gently time-keep. "That's great — let's save the rest for Q&A. Who's next?"
Presentations run short	Fill with group testing of the Space. "Let's all try it — give me an input!"
Student didn't finish their project	Celebrate what they DID build. Even a forked template with customized labels counts.
Portfolio compilation takes too long	Collect just the URLs and names during session. Fill in descriptions async.
Bing (program director) joins the session	Great! Let students present directly to the stakeholder. Adjust nothing — this is what they prepared for.
Emotional moment (student proud/upset)	Let it breathe. These kids built something real. That matters.

Pre-Session Checklist

- [ ] Wake all student Spaces 30+ minutes before session
- [ ] Load each Space URL in a browser tab — verify they work

- [ ] Take screenshots of each Space as backup
- [ ] Prepare presentation format slide/screen to share
- [ ] Have portfolio template ready
- [ ] Know the presentation order
- [ ] Have the 10-concept recap table ready for the reflection section