

Ourbit Master AI - Day 5: Context and Memory

Purpose: Understand context windows, their limits, and practical ways to keep important information available.

Source/build status: Recovered Module 3 is the source; preserve the scrolling-window model.

Learning outcomes

- Explain what a context window makes available to a model during a task.
- Distinguish current context from durable stored or retrieved information.
- Keep critical constraints visible during long-running work.
- Choose when information should be restated, stored or retrieved.

Core lesson - Context and Memory

A language model can only use information made available to the current generation process. A context window is the bounded amount of material a system can consider at once. Context is not the same thing as durable human-like memory. In long work, keep critical constraints explicit and maintain a compact source of truth rather than assuming an old message remains influential forever.

Worked example

A project begins with “Use only free tools.” Much later, a proposed solution includes a paid service. Keep that rule in the current project brief or restate it at the decision point rather than relying on conversational history alone.

Teaching / video direction

Show a window sliding across a long conversation while a compact project brief remains available. Distinguish current context, persistent application state and retrieval. Close by asking how a system finds the right information without keeping everything in view-Day 6.

Hands-on practical exercise

- Write three non-negotiable constraints for a long AI-assisted task.
- Create a compact current brief containing those constraints.
- Continue the task through several exchanges, then deliberately check whether the constraints are still explicit.
- Identify information that should be stored durably or retrieved only when relevant.
- Before a consequential decision, re-reference the current source of truth.

- Record one failure that could occur if old conversational context were assumed to be permanent.

Knowledge check

- What is a context window in practical terms?
- Why is context not the same as durable human-like memory?
- How can a critical constraint be protected during long work?
- When is retrieval preferable to repeatedly placing everything in context?
- What can happen when an early instruction is no longer usable by the system?
- How does Day 5 prepare for semantic retrieval on Day 6?

Assessment and remediation contract

The scored daily quiz uses 10 questions; 7/10 (70%) is a pass. Missed concepts map to exact lesson anchors for targeted remediation, including on a passing attempt. Attempts 1-9 below threshold return to remediation and a fresh eligible question set; an unsuccessful tenth attempt restarts the day in a new learning cycle while preserving history. The 50-question validated bank is a learner-release gate and will be scaled only after the Day 1 runtime passes acceptance.

Production / QA notes

- Use the worked scenario as the primary visual sequence; avoid generic AI-brain imagery.
- Keep terminology vendor-neutral and define unavoidable technical terms in context.
- Do not equate fluent output with verified truth or AI assistance with autonomous authority.
- Before learner release, fact-check the final lesson and validate every scored item against explicit teaching.

Learning comes before credentials. Completing this reading alone does not issue a certificate. Programme assessment and practical requirements apply.