

Generative AI Video Learning Hub - User Guide

Introduction

The **Generative AI Video Learning Hub** is a mobile-first HTML5 app for watching short, focused video lessons on Generative AI. Each video is a self-contained micro-lesson drawn from the textbook chapters (Foundations, Applications, Patterns, and Advanced Topics).

The app is designed to support **repeatable, self-paced learning** rather than one-time viewing. You will:

- Browse videos by chapter.
- Watch short, focused lessons in a distraction-free card layout.
- Drop **Smart Bookmarks** at important moments.
- Capture **inline notes** tied to timestamps.
- Build a **Review Deck** of videos you want to revisit.
- View **Learning Stats** that reflect your actual watch behavior over time.

Everything runs in the browser with **no login** and **no backend**. Your favorites, bookmarks, notes, review deck, and analytics are stored locally in your browser, so the app remains usable even when offline.

Quick Start (2-Minute Tour)

1. Choose a chapter

Tap **Ch 1–4** in the top-left to pick the section of the textbook you’re working through (Foundations, Applications, Patterns, or Advanced).

2. Play the current video

Tap directly on the **video area** to play/pause (or use the built-in controls).

Tap the **big ► icon** overlay to open the video in **Theater Mode** for a larger view.

3. Add a Smart Bookmark

While the video is playing, tap “**+ Bookmark this moment**” to save the current timestamp. Use the chips below the video to jump back to those points instantly.

4. Add a Note for this video

Tap “**+ Note at current time**”, type a short note, and save. Your note is pinned to that exact timestamp and appears in the Notes list for one-tap replay.

5. Build your Review Deck & check your progress

- Tap “**+ Add to Review Deck**” on any important video. Once added, the button changes to “**In Review Deck**” so you know it’s already queued for review.
- Tap  **Review Deck** to see only your review videos.
- Tap  **Learning Stats** to see which videos you’ve watched, how much of each you’ve completed, and where you’ve added bookmarks and notes.

You can now treat the app like a **video study companion**: browse, watch, mark high-value moments, and then use the Review Deck and Learning Stats to drive deliberate practice.

Core Concept: Video-Based Micro-Learning

The hub is built around **short video lessons** instead of long lectures. Each **Video Card** focuses on one idea and gives you a simple, tactile way to interact with it.

Every **Video Card** includes:

- Chapter label (e.g., **Ch 1 • Foundations**).
- Video Title (e.g., “1.1 Latent Space – The Model’s Map of Meaning”).
- 16:9 video player with poster image and captions.
- Description / mini-transcript area.
- Smart Bookmarks bar.
- Notes Dock.
- Favorite toggle and Review Deck button.
- Progress and status at the bottom.

Instead of passively watching a playlist, you work with each lesson: you can mark it, annotate it, queue it for review, and track how deeply you've engaged.

Interface Overview

When you open the app, you'll see four main zones:

1. Top-Left: Chapter Tabs

- **Ch 1 – Foundations**
- **Ch 2 – Applications**
- **Ch 3 – Patterns**
- **Ch 4 – Advanced**

Tapping a tab switches the list of videos to that chapter and loads the first video.

2. Top-Right: View Toggles

-  **View Favorites** — switches between normal chapter view and “favorites only”.
-  **Review Deck** — opens your cross-chapter review list of videos you've explicitly added.
-  **Learning Stats** — opens a metrics panel showing progress and per-video analytics.

3. Center: Video Card

A single **video lesson card** containing:

- Chapter label and title
- Transcript badge
- Video player (with poster thumbnail and captions)
- Description / transcript snippet
- Smart Bookmarks bar
- Notes Dock
- Favorite and Review Deck controls

4. Bottom: Progress & Hints

- A **progress bar** showing your position (e.g., “5 of 19 videos”).
- A hint line with tips for using taps, swipes, and keyboard shortcuts.
- A **Favorites count** showing how many videos you’ve favorited across the hub.

The layout is optimized for phones first, but works equally well on tablets and desktops.

Watching a Video Lesson

Play / Pause

- Tap **directly on the video area** to play or pause.
- The overlay ▶ icon fades away when the video is playing and reappears when it’s paused.

Theater Mode

- Tap the **large ▶ overlay button** to open the current video in **Theater Mode** (a larger, centered modal).
- In Theater Mode:
 - The same video file and captions are loaded.
 - The background darkens for a more immersive viewing experience.
 - Tap “**X Close**” or press **Esc** to exit and return to the card.

Captions & Transcript

- Each video can load an associated **.vtt caption file** when available.
- The **Transcript badge** at the top-right communicates status:
 - “**Transcript coming soon**” — default placeholder; full transcript text has not yet been added.
 - “**Transcript available**” — appears automatically once transcript text has been provided.
- Clicking the **Transcript badge** scrolls the description/transcript panel into view, which is helpful on longer pages.

Smart Segment Bookmarks

Smart Bookmarks let you mark and revisit important moments in any video without manually scrubbing.

Under the video, you'll see a **Smart bookmarks** area:

- Tap “**+ Bookmark this moment**” while watching to save the current timestamp.
- Each bookmark appears as a **chip** showing the time (e.g., 1:32) and an optional label.
- Tap a bookmark chip to:
 - Jump to that time in the video.
 - Start playback from that point.
- Press and hold (on touch) or right-click (on desktop) to **delete** a bookmark when it's no longer needed.

Bookmarks are stored **per video** and persist in your browser between sessions.

Notes Dock — Per-Video Sticky Notes

The **Notes Dock** lets you attach short notes to specific points in a video.

- Tap “**+ Note at current time**” to create a new note anchored to the current timestamp.
- Type a brief note (e.g., “Definition of semantic drift starts here”) and save.
- Notes appear as a list with:
 - Time (e.g., 2:45)
 - Your note text (truncated if long)
- Tap a note to:
 - Jump to that point in the video.
 - Start playback so you can re-hear the context.

Notes are stored per video, giving each lesson its own mini annotation layer.

Favorites — Your Personal Shortlist

Favorites provide a lightweight way to highlight videos you expect to revisit.

Adding / Removing Favorites

- Use the **heart button** on the card:
 - “**♥ Add Favorite**” — taps add the current video to your favorites.
 - “**♥ In Favorites**” — indicates the video is already favorited; tap again to remove.

Favorites View

- Tap **♥ View Favorites** in the top-right to toggle:
 - **Off** — normal per-chapter browsing.
 - **On** — browse **only** your favorites across all chapters.
 - The progress display updates to show your position within the current favorites list.
 - A small label shows the global number of favorites you’ve added.
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Review Deck — A Structured Practice Queue

The **Review Deck** is a deliberate practice list: videos you want to revisit, even if they’re not your general favorites.

Adding to the Review Deck

- On the video card, use the **Review Deck button**:
 - “**+ Add to Review Deck**” — this video is not yet in your deck. Tap to add.
 - After adding, the button changes to “**In Review Deck**” and becomes disabled, clearly indicating it’s already in the deck.

Review Deck Panel

- Tap  **Review Deck** to open a slide-up panel at the bottom of the screen.
- Each entry shows:
 - The video title

- Chapter and section
- Actions: **Watch** and **Remove**

Using the Deck

- **Watch** — jumps directly to that video and closes the panel.
- **Remove** — removes the video from the deck. If it's the video currently on screen, the card button resets back to “**+ Add to Review Deck**”.

Use the Review Deck to drive spaced repetition and focused rewatch sessions.

Learning Stats — Watch Progress & Analytics

The **Learning Stats** panel summarizes what you've watched and how deeply you've engaged.

Tap  **Learning Stats** to display:

Chapter Summary

For each chapter with videos, you'll see:

- **Completed / Total videos**
- Number of videos in the **Review Deck**
- Total **Bookmarks** and **Notes** created in that chapter

Per-Video Rows

Each video is shown with:

- Title and chapter/section.
- **Status:**
 - Not started
 - In progress
 - Completed (watched $\geq 80\%$)
 - Needs review (if the video is in the Review Deck)
- A mini **progress bar** and watch percentage.

- Counts for **Bookmarks**, **Notes**, and **Rewatches**.

From this panel, you can tap “**Watch**” on any row to jump straight back into that lesson.

How Progress is Tracked

For each video, the app tracks:

- Duration (from the video metadata).
- Furthest timestamp reached.
- How many times you’ve reached the end (rewatches).
- Whether it’s effectively completed ($\geq 80\%$ watched).

All data is stored locally in the browser using `localStorage`. No information is sent to a server.

Keyboard, Mouse, and Touch Controls

The app supports both traditional and mobile interactions.

Desktop / Laptop

- **Keyboard**
 - \leftarrow Previous video
 - \rightarrow Next video
 - Esc Close Theater Mode, Review Deck, or Learning Stats
- **Mouse**
 - Click the left/right **navigation arrows** to move between videos.
 - Click the **video** to play/pause.
 - Click **bookmark chips** and **notes** to jump to specific moments.
 - Click **Transcript badge**, **Review Deck**, and **Learning Stats** to open their respective panels.

Tablet / Phone

- **Swipes**
 - Swipe left/right on the card to move between videos.

- **Taps**
 - Tap chapter tabs to change chapters.
 - Tap the video to play/pause.
 - Tap the big ► to enter Theater Mode.
 - Tap buttons for **Bookmarks**, **Notes**, **Favorites**, **Review Deck**, and **Learning Stats**.
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Recommended Use Patterns

Quick Refresher

1. Open the app and select the chapter you’re revisiting.
2. Use the titles to find the relevant video.
3. Drop a **bookmark** at the single most important explanation.
4. Leave a **short note** capturing the “one-sentence takeaway”.

Focused Study Session

1. Choose a chapter and move through videos in order.
2. For each video:
 - Watch once end-to-end.
 - Add bookmarks where key definitions or diagrams appear.
 - Write notes at points you might want to teach or explain to someone else.
3. Add the most challenging or important videos to the **Review Deck**.
4. Open **Learning Stats** to check completion and identify which videos may need another pass.

Ongoing Review

1. Start each session by opening **Review Deck** and watching 1–3 queued videos.
2. Use **Learning Stats** to identify:
 - Videos with low watch percentages but high importance (many notes/bookmarks).

- Videos that you've rewatched multiple times and may now be ready to remove from the deck.
3. Continually refine:
- Remove videos from the Review Deck as they become easy.
 - Add new, harder videos as your understanding deepens.
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Summary

The Generative AI Video Learning Hub combines short, focused videos with interactive tools that help you:

- Navigate content by chapter.
- Watch videos in a clean, distraction-free layout.
- Mark key moments with **Smart Bookmarks**.
- Capture insights using the **Notes Dock**.
- Build a custom **Review Deck** for spaced practice.
- Monitor progress with **Learning Stats**.
- See at a glance whether **transcripts** are available.

Use it as your interactive companion while you study Generative AI—one video, one bookmark, and one note at a time.