

Applying AI in L&D

From Platforms to Performance

Josh Cavalier, CEO Josh Cavalier.ai



Performance is our Product



L&D's Evolution

From content makers → performance system designers



New Role Defined

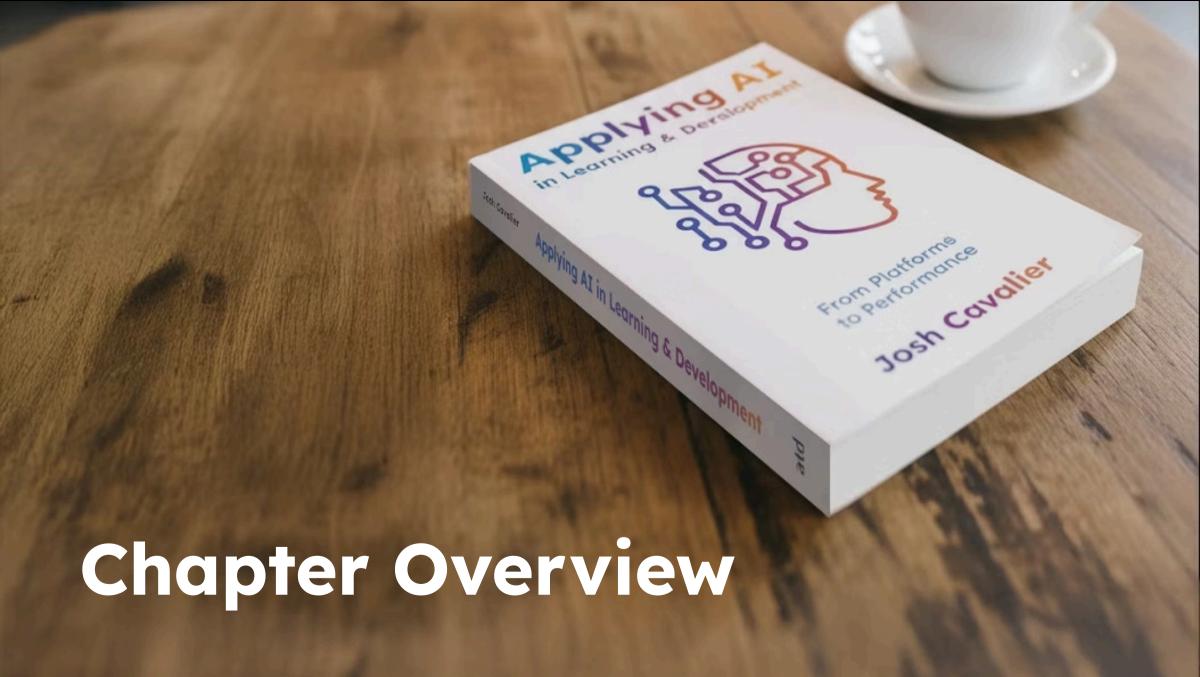
Human–Machine Performance Analyst (humans + AI)

What We Stop

Content-first delivery focused solely on course creation and completion metrics

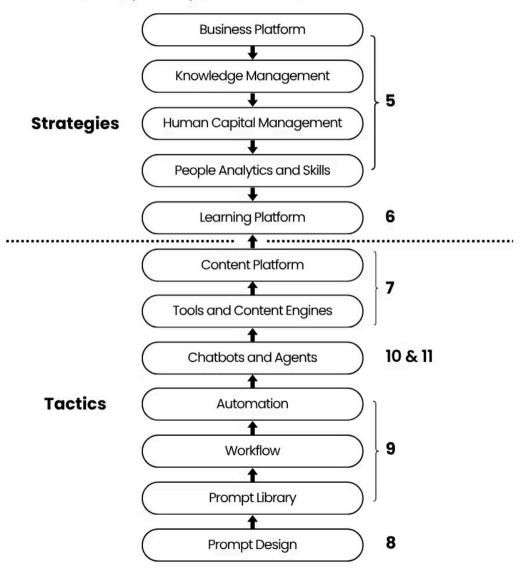
What We Start

KPI-first orchestration that measures real business impact and behavior change



Build the Foundation

- 1. What You Need to Know About Al
- 2. The Rise of the Human-Machine Performance Analyst
- 3. The AI Strategy for Learning and Development
- 4. Privacy, Security, Ethics, and Governance



Chapter 1:

What You Need to Know About AI

"AI will fundamentally reimagine how we approach human learning and performance."

— Chapter 1, page 9.

Foundation: AI & GenAI — What Actually Matters



Quality Formula

Instructions + context + examples + evaluation = exceptional output



Retrieval Power

Connects your organizational knowledge to specific, actionable tasks



Structured Design

Tables, JSON, rubrics speed review and ensure consistency



Chapter 2:

The Rise of the Human-Machine Performance Analyst

"The near-term future of L&D isn't about replacing our human expertise with artificial intelligence. Instead, it's about amplifying our capabilities, freeing us from routine tasks to focus on what matters most: understanding human potential and creating environments where people and machines can thrive."

⁻ Chapter 2, page 30.



Foundation: Position Yourself for the AI Era



Own Learning Strategy & Outcomes

Link programs directly to business KPIs.



Master Human+AI Design

Focus on prompt craft, content curation, and personalization.



Build Data Literacy

Effectively measure impact and run experiments.



Strengthen Facilitation & Coaching

Lead effective behavior change initiatives.



Lead Ethics & Governance

Ensure fairness, transparency, and trust in Al applications.

Chapter 3:

The AI Strategy for Learning and Development

"Remember: Building a solid foundation for AI isn't about having all the answers; it's about asking the right questions and creating space for thoughtful implementation."

— Chapter 3, page 59.



Foundation: The Role of L&D Is Evolving

01

Workflow-First Mindset Critical New Skills

Shift from courses-first to workflow-first performance support that meets learners at the moment of need

02

Prompt craft, data literacy, process design, and rigorous evaluation frameworks

03

Product Team Operations

Adopt agile practices: backlog management, sprints, telemetry, and continuous improvement



1980's Trivia:

Marty McFly needs 1.21 gigawatts and exactly 88 mph to time-jump in *Back to the Future*. Everyone knows that.

But when he first uses the DeLorean's time circuits in 1985, what specific date does Doc call "a red-letter date in the history of science"



November 5, 1955



Chapter 4:

Privacy, Security, Ethics, and Governance

Foundation: Privacy, Security, Ethics

Data Governance

Implement clear data classification, consent protocols, and retention policies

Quality Controls

Regular bias checks, transparency requirements, and mandatory human oversight

MYTH

'Al replaces SMEs and eliminates the need for expert involvement'

FACT

'Al amplifies SMEs; L&D curates, evaluates, and ensures quality at scale'

Chapter 5:

Business Platforms and Performance

Four Strategy Lenses

Choose the strategic lever that aligns with your organization's current priorities and maturity level.



Business Platform



Knowledge Management



Human Capital Management (People Analytics & Skills)



Learning Platform

Business Performance Ccricentecrewth Aertoc@donws 28.894 225586 930 ♦ 270.01B

Strategy: Business Platform

KPI Connection

Directly tie learning initiatives to revenue, quality, safety, or customer experience metrics

Transformation Story

Before: Point solution

content

After: Performance

workflow with real-time

telemetry

Define 'Done'

Measurable behavior change and quantifiable KPI delta not just completion rates



Strategy: Human Capital Management



Role Clarity

Define roles, responsibilities, and skill taxonomies to enable precise targeting and personalization



Task-Skill Mapping

Map specific tasks to required skills and align everything to measurable performance outcomes



AI-Powered Practice

Use AI to draft role-specific practice scenarios and personalized coaching interventions

Chapter 6:

AI-Enabled Learning Platforms

Strategy: Learning Platform

Intelligent Personalization

Deliver content tailored by role, skill gaps, and real-time context to maximize relevance



Integrated Ecosystem

Build cohesive pathways that integrate authoring, delivery, and evaluation while capturing data for continuous insights





1990's Trivia:

James Cameron's Titanic famously tied the all-time Oscars record.

How many Academy
Awards did it win—and
which earlier epic did it tie?



11 Oscars
Tied with Ben-Hur
(1959)



Chapter 7:

Content Development Powered by AI

Guardrails: Five Non-Negotiables

3

4

Data Protection

Data classification and explicit consent; never expose sensitive data in unsafe contexts

Bias & Transparency
Regular bias audits and transparent sourcing; cite and attribute all Al-generated content

Human Oversight

Mandatory human review for critical decisions and anything affecting learner safety

Audit Trails

Complete logs of who prompted what, when, and with which content or context

Update ScheduleDefined sunset and refresh cycles for prompts, agents, and context packs

Chapter 8:

Prompt Design

Tactics: Prompt Design (Your 3-Part Template)

1. Role & Audience

Who is the Al assistant and who is the learner? Set context and expertise level.

2. Task & Constraints

The performance goal, necessary context, boundaries, and critical guardrails.

3. Output Format

Structured rubric, table, or JSON for quick, consistent review and evaluation.

Pro Tip: Well-structured prompts reduce review time by 60% and dramatically improve output consistency.

Tactics: Prompt Library = Your New Style Guide

Organize for Reuse

Tag every prompt by use case, role, and maturity level. Include concrete examples and documented failure modes.

Build In Quality

Standardize rubric-based evaluation criteria inside each prompt template to ensure consistency.

Track Performance

Version all prompts and capture key metrics: acceptance rate, edit time, and user satisfaction.



Chapter 9:

AI Learning Workflows and Automation



Tactics: Workflow & Automation







Strategic Gates

Chain automated steps with human review gates where judgment matters most

Self-Evaluation

Deploy evaluation prompts and rubrics so outputs self-check before human review

Close the Loop

Publish to your platform and route all feedback into your improvement backlog



2000's Trivia:

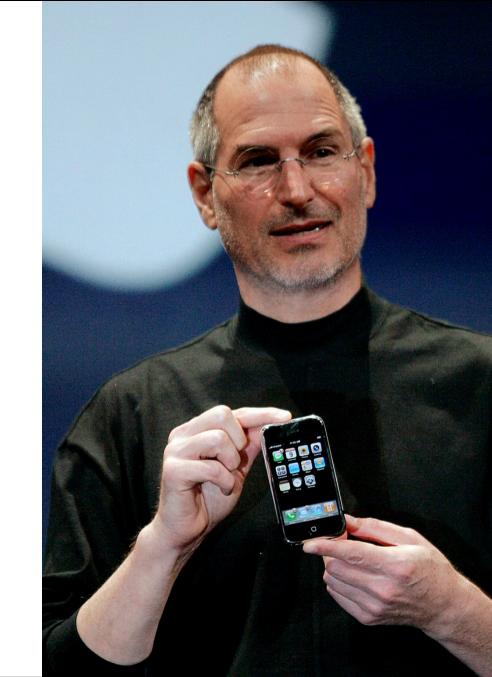
At the 2007 Apple keynote, Steve Jobs teased the crowd with "three things":

an ____ , a ___ , and an ____ .

Then revealed they were all one device: the iPhone.



an iPod,
a phone,
and an Internet
communicator



Chapter 10:

Autonomous Agents



Strategy: People Analytics & Skills

1

Behavior-Focused Instrumentation

Measure actual behavior change on the job—not just course completions or satisfaction scores

2

Observable Criteria

Define clear, observable behaviors and quality criteria that connect to business impact

3

Leading Indicators

Correlate leading performance indicators with downstream business KPIs to prove ROI

Chapter 11:

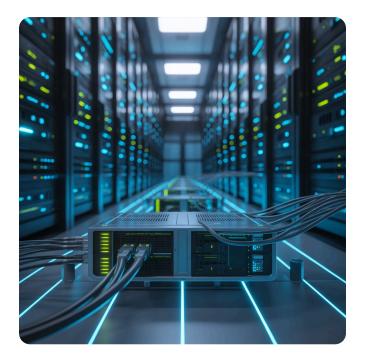
Conversational AI

Tactics: Chatbots & Agents



Front-of-House Chatbot

Provides learners with instant answers, personalized guidance, and intelligent routing to the right resources.



Back-Office Agent

Handles content prep, metadata tagging, format conversion, and initial QA —freeing L&D for strategic work.

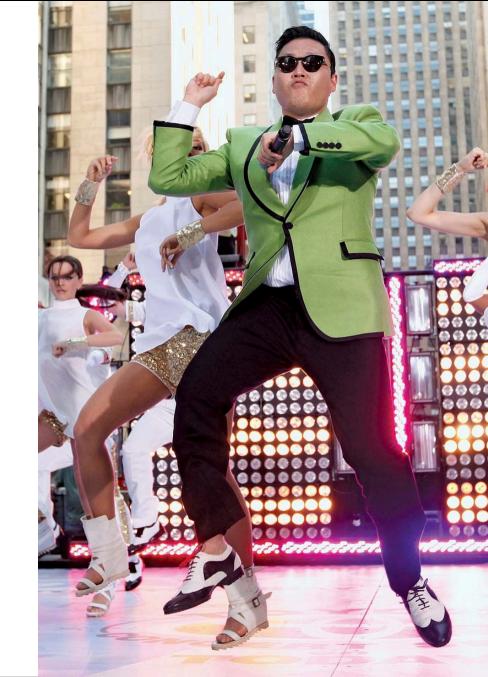
Critical: Always design clear escalation paths and handoff protocols to human experts for edge cases and complex situations.



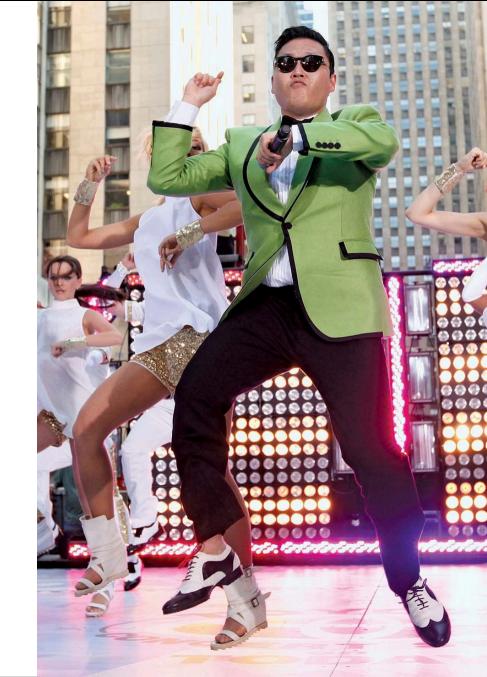
2010's Trivia:

PSY's "Gangnam Style" kicked off YouTube's billion-view club in 2012.

Which music video first dethroned "Gangnam Style" as the platform's most-viewed video, and in what year did that happen?



"See You Again" (Wiz Khalifa ft. Charlie Puth) in 2017



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Tosh Cavalier







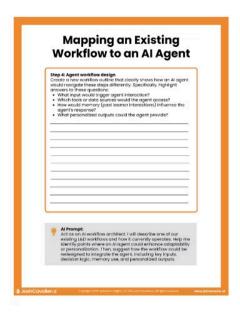
Illustrations



Key Concepts



Chapter Overview



Exercises