Course 16 — Building AI Solutions for Health Systems

Tier: 3 (Technical Instructor) · **Days:** 5 · **Cohort max:** 12 · **Ratio:** 1:12
Prerequisites: Python refresher (screener) + health-data familiarity.
Tools provisioned: Python environment, de-identified EHR dataset, NLP libraries, RAG sandbox.

Day 1 — Health data fundamentals: EHR, HL7/FHIR, de-identification; Python for health data.
Day 2 — Predictive modeling: readmission, no-show, deterioration; model fairness across patient populations.
Day 3 — NLP for clinical notes: entity extraction, summarization; RAG for clinical guideline retrieval.
Day 4 — Deployment considerations: integration, alert fatigue, clinician trust; governance and privacy (HIPAA/equivalent).
Day 5 — Capstone: working clinical NLP or prediction prototype on de-identified data; present with fairness and deployment assessment.

Capstone artifact: Prototype + governance brief.
Tutor certification: Tier 3 + clinical/privacy sign-off + rubric calibration.
Kit-specific notes: Only de-identified, license-clean datasets; privacy checklist mandatory.

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