Course 21 — AI for Research Productivity & Scientific Writing

Tier: 3 (Technical Instructor) · **Days:** 5 · **Cohort max:** 12 · **Ratio:** 1:12
Prerequisites: Research/faculty role; basic data-analysis familiarity.
Tools provisioned: Semantic-search tools, LLM access, Python/stats sandbox, reproducibility workspace.

Day 1 — Literature review with AI: semantic search, summarization, citation mapping; tools and limitations.
Day 2 — LLMs for drafting and editing: abstracts, methods, grants; maintaining scientific integrity and authorship transparency.
Day 3 — AI for data analysis: code generation for statistical analysis, visualization; reproducibility and documentation.
Day 4 — AI in peer review and editorial workflows; detecting AI-generated paper-mill content.
Day 5 — Capstone: complete AI-augmented research workflow for a current project, with integrity safeguards documented.

Capstone artifact: Research workflow + integrity protocol.
Tutor certification: Tier 3 + research-integrity sign-off + rubric calibration.
Kit-specific notes: Integrity-protocol template mandatory; reproducibility checklist in Tutor Guide.

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