Course 12 — AI for Demand Forecasting, Inventory & Route Optimization

Tier: 2 (Practitioner-Tutor, domain: supply chain) · **Days:** 3 · **Cohort max:** 16 · **Ratio:** 1:16
Prerequisites: Supply chain/logistics experience; basic spreadsheet skills.
Tools provisioned: Python/Excel forecasting sandbox, LLM access, product-category demand dataset.

Day 1 — Demand forecasting with ML: time-series basics, external signals; interpreting forecasts for procurement decisions; Excel/Python integration.
Day 2 — Inventory optimization under uncertainty: AI for supplier risk monitoring (news, financial signals); route and load optimization concepts.
Day 3 — Capstone: build a demand forecast for a product category; translate into inventory recommendation with confidence intervals.

Capstone artifact: Forecast model + inventory recommendation memo.
Tutor certification: Tier 2 (supply chain) + rubric calibration.
Kit-specific notes: Confidence-interval interpretation worksheet is mandatory.

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