

LLMOps: Evaluation, Monitoring & Cost Control

2027 8 - 4
London (UK)

UK Training

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LLMOps: Evaluation, Monitoring & Cost Control

2022-2024 **2024-2025** **2025-2026** **2026-2027** **2027-2028** **2028-2029** **2029-2030** **2030-2031** **2031-2032** **2032-2033** **2033-2034** **2034-2035** **2035-2036** **2036-2037** **2037-2038** **2038-2039** **2039-2040** **2040-2041** **2041-2042** **2042-2043** **2043-2044** **2044-2045** **2045-2046** **2046-2047** **2047-2048** **2048-2049** **2049-2050** **2050-2051** **2051-2052** **2052-2053** **2053-2054** **2054-2055** **2055-2056** **2056-2057** **2057-2058** **2058-2059** **2059-2060** **2060-2061** **2061-2062** **2062-2063** **2063-2064** **2064-2065** **2065-2066** **2066-2067** **2067-2068** **2068-2069** **2069-2070** **2070-2071** **2071-2072** **2072-2073** **2073-2074** **2074-2075** **2075-2076** **2076-2077** **2077-2078** **2078-2079** **2079-2080** **2080-2081** **2081-2082** **2082-2083** **2083-2084** **2084-2085** **2085-2086** **2086-2087** **2087-2088** **2088-2089** **2089-2090** **2090-2091** **2091-2092** **2092-2093** **2093-2094** 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Day 2: Evaluation Frameworks and Metrics

- Importance of LLM evaluation: accuracy, coherence, and consistency.
- Human vs. automated evaluation: strengths and trade-offs.
- Key metrics: relevance, faithfulness, latency, and user satisfaction.
- Evaluation frameworks: OpenAI Evals, LangChain, TruLens, and custom metrics.
- Practical exercise: designing an evaluation workflow for an LLM-based chatbot.

Day 3: Monitoring, Logging, and Drift Detection

- Setting up observability in LLM systems — tracing and performance tracking.
- Detecting drift in model behavior, prompts, or response quality.
- Monitoring hallucinations and response safety using guardrails.
- Logging interactions for transparency and reproducibility.
- Workshop: building a live monitoring dashboard for an LLM API.

Day 4: Cost Control and Resource Optimization

- Understanding LLM cost drivers — token usage, context length, and model size.
- Cost optimization strategies: caching, batching, and model selection.
- Using open-source and smaller fine-tuned models effectively.
- Budgeting and forecasting for large-scale LLM deployments.
- Simulation: implementing a cost-reduction plan for a production LLM system.

Day 5: Governance, Automation, and Continuous Improvement

- Governance frameworks for responsible LLM deployment compliance and ethics.
- Automating evaluation, retraining, and monitoring cycles.
- Integrating LLMOps with CI/CD pipelines and workflow orchestration tools.
- The future of LLMOps: adaptive evaluation, self-monitoring models, and agentic systems.
- Action workshop: designing a complete LLMOps strategy for your organization.

Individual Impact

- Gain a comprehensive understanding of LLMOps principles and best practices.
- Build confidence in evaluating, monitoring, and optimizing LLM applications.
- Strengthen analytical and operational decision-making for AI projects.
- Learn how to manage AI system costs while maintaining high performance.
- Develop leadership in building scalable and responsible AI infrastructure.

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A graphic illustration of a chessboard with several chess pieces. In the foreground, a gold king piece stands prominently. Behind it, a silver pawn and a gold pawn are visible. The background shows concentric circles emanating from behind the king piece, suggesting a strategic or leadership theme.

Work Impact

- Improve reliability and transparency of deployed LLM systems.
- Strengthen governance, safety, and auditability of AI applications.
- Reduce operating costs and resource inefficiencies in LLM workflows.
- Enhance collaboration between data science, engineering, and product teams.
- Support sustainable AI innovation through structured operational excellence.

Training Methodology

This program combines technical learning, hands-on experimentation, and strategic implementation frameworks to ensure applied understanding.

Learning methods include:

- Real-world case studies from enterprises managing LLM deployments.
- Practical labs using tools like LangChain, TruLens, OpenAI Evals, and Weights & Biases.
- Simulation exercises for performance monitoring and cost optimization.
- Group discussions on governance and continuous improvement.
- Templates and toolkits for LLMOps dashboards and evaluation frameworks.

Beyond the Course

Upon completion, participants will be equipped to design and implement robust LLMOps systems that ensure model accuracy, compliance, and efficiency.

They will leave ready to lead the deployment of scalable, transparent, and cost-effective LLM solutions — turning AI from experimentation into measurable business value.

A graphic of a chessboard with several pawns and a king piece. The king piece is gold and stands prominently on the right side of the board. The pawns are silver and gold. The board is checkered and has a subtle grid pattern.

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