

From Theory to Practice: A Deep Dive into Generative AI Techniques and Applications.



Gen AI Hands-On Workshop

Join us for an immersive Generative AI Workshop designed for professionals eager to explore the forefront of artificial intelligence. Dive into the fascinating realm of Generative AI, where algorithms unleash unprecedented creativity and innovation across various domains.

During this hands-on workshop, participants will delve into the principles and methodologies behind Generative AI, gaining practical insights into its applications and potential in your unique vertical. From image and text generation to music composition and beyond, discover how Generative AI is revolutionizing content creation and problem-solving in unprecedented ways.

Led by industry experts and seasoned practitioners, the workshop will combine theoretical knowledge with practical exercises, empowering participants to apply Generative AI techniques in their own projects and workflows. Whether you're seeking to expand your skill set or intrigued by the possibilities of AI-driven creativity, this workshop offers a unique opportunity to learn, experiment, and innovate.

Cambridge Technology's Expertise

- 1.1 billion predictions per day
- 250 unique enterprise level source data integrations
- 205 AI Models in use
- 20 pre-built industry specific AI applications

Generative AI Workshop Deliverables

- **Review of technologies behind Generative AI and its use cases**
- **Live demos of generative AI architecture, training processes, and capabilities**
- **Overview of creating custom models and their fine-tuning**
- **Practical exercises using pre-trained models**
- **Ethical implications of Generative AI**
- **Resources for continued learning and exploration**

Generative AI Hands-On Workshop Agenda

Introduction (30 minutes)

Welcome and Overview: Quick introduction to the workshop goals and outline

Overview of Generative AI: A concise summary highlighting the importance and potential of generative AI technologies

SESSION - 1

Fundamentals of Generative AI (1 hour)

Understanding the Basics: Introduction to the concepts and technologies behind generative AI, including neural networks, machine learning, and specific models.

Key Applications and Use Cases: Quick review of how generative AI is applied in various fields such as content creation, design, and more.

Coffee Break (15 minutes)

SESSION - 2

Dive into Generative Models (1.5 hours)

Exploring GPT and DALL·E: Detailed explanation of how models work, including architecture, training processes, and capabilities.

Live Demonstrations: Showcasing generative AI in action through live demos, highlighting the potential and versatility of these technologies.

Lunch Break (1 hour)

SESSION - 3

Hands-On Exercises (3 hours)

Environment Setup: Guidance on setting up a development environment for generative AI projects.

Practical Exercises: Text & Image Generation with LLM: Participants work on exercises to generate text content using pre-trained models.

Group Project: Small groups work on a mini-project of choice combining text and image generation to solve a simple problem or create a product concept.

Coffee Break (15 minutes)

SESSION - 4

Advanced Topics (1 hour)

Fine-Tuning and Custom Models: Overview of how to customize and fine-tune generative AI models for specific tasks or industries.

Ethics and Responsible AI: Discussion on the ethical implications of generative AI, including bias, privacy, and the importance of responsible AI practices.

SESSION - 5

Project Presentations and Feedback (1 hour)

Group Presentations: Each group presents their mini-project, showcasing their work and explaining their creative process.

Feedback Session: Constructive feedback from instructors and peers, highlighting strengths and areas for improvement.

Workshop Recap: Summarizing key learnings and achievements from the workshop.

Further Learning Resources: Providing generative AI resources for continued learning and exploration

Closing Remarks: Thanking participants and encouraging them to continue exploring and implementing generative AI technologies.

Wrap-Up and Closing Remarks (30 minutes)

Pre-Requisite: The workshop will be done in groups. Each group need to at least one participant with hand-on programing skills.

To schedule a session
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