



Deep Learning and Generative AI Practices

H45WXS

| | |
|--|--------------------------|
| Course ID | H45WXS |
| Duration | 5 days |
| Format | ILT, VILT |
| View schedule, local pricing, and register | View now |
| Browse related courses | View now |

This course teaches you how to create AI-enabled products, prototypes, proofs-of-concept, and how to use industry-grade deep learning to solve complex AI tasks. It also covers how to use generative AI and how to use it to create effective prompts.

Through comprehensive, hands-on virtual labs, you gain advanced AI knowledge using real world projects to help expand your existing skills and how to engineer a wide range of AI scenarios.

5 reasons to choose HPE as your training partner

1. Learn HPE and in-demand IT industry technologies from expert instructors.
2. Build career-advancing power skills.
3. Enjoy personalized learning journeys aligned to your company's needs.
4. Choose how you learn: [in-person](#), [virtually](#), or [on-demand](#)—anytime, anywhere.
5. Sharpen your skills with access to real environments in [virtual labs](#).

Explore our simplified purchase options, including [HPE Education Learning Credits](#).

Audience

This course is ideal for technical students and professionals, entrepreneurs, and developers from all industries.

Prerequisites

Before attending this course, you should have a working knowledge of Python fundamentals.

Course objectives

After completing this course, you should be able to:

- Build a deep learning solution or service
- Design and implement AI solutions for business problems
- Complete a real-world AI project
- Make informed AI decisions and reduce external dependencies

Certifications and related exams

This is an exam-based course, which includes a two-hour exam with 50 questions. Students must score a minimum of 70% to pass the course.

Detailed course outline

| | | |
|---|---|--|
| Module 1: Introduction to Data Science | <ul style="list-style-type: none">Objectives and getting started with AI and AI toolsAI application areas: natural languages, computer vision, and generative AIThe AI ecosystem and current leaders in the field | <ul style="list-style-type: none">Building your first AI model with deep learningUse cases and case studies on how others are implementing AI profitablyEthical and responsible AI usage |
| Module 2: How to Build a Deep Learning Model? | <ul style="list-style-type: none">Designing and implementing neural network layersOverview and understanding of deep learning models | <ul style="list-style-type: none">Strategies for improving AI modelsFrom data to insights—structured and unstructured models |
| Module 3: Introduction to Generative AI | <ul style="list-style-type: none">What is generative AI and how to use it?Getting started with enterprise OpenAI StudioAll about hallucinations and other mystical generative AI concepts | <ul style="list-style-type: none">Customize generative AI for your own tasksBuilding a generative AI use case |
| Module 4: Prompt Engineering | <ul style="list-style-type: none">Prompt engineering types and utilitiesContext and examples: tuning, fine-tuning, and customizing AI for your business use case | <ul style="list-style-type: none">Retrieval augmented generationWorking with private dataAI-enabled chatbots |
| Module 5: Building Your AI Project | <ul style="list-style-type: none">Defining and breaking down a problem statementIdentifying the machine learning and AI use cases | <ul style="list-style-type: none">Building and testing your solutionDeployment options and end-user concernsData, compliance, and governance |
| Module 6: Building a Complete Solution | <ul style="list-style-type: none">Solving real-world problems with AIBuilding a deep learning API | <ul style="list-style-type: none">Understanding containers and DockerData quality concerns and fixing challenges |

Learn more at

hpe.com/my/learnAI

Follow us:

