


Gen AI for Python Developers




PROGRAM OVERVIEW

The Generative AI for Python Developers program equips experienced Python developers with advanced skills to work with and master the latest generative models, such as GPT and DALL-E. Participants will learn to create diverse media, including text and images, using these cutting-edge technologies.



AUDIENCE

This program is for experienced Python developers ready to expand into generative AI. It's ideal for engineers and data professionals who want to build applications using models like GPT and DALL-E.



INTENDED OUTCOME

Participants will learn to integrate and apply generative models to create AI-powered tools that generate text, images, and code. They'll leave with practical experience, project examples, and the confidence to lead generative AI initiatives.

FOUNDATIONS

- INTRODUCTION TO GENERATIVE AI
- DEEP DIVE INTO GPT MODELS
- ADVANCED TEXT GENERATION

ADVANCED TOPICS

- INTRODUCTION TO DALL-E AND IMAGE GENERATION
- ADVANCED IMAGE GENERATION TECHNIQUES
- AUDIO GENERATION WITH GENERATIVE MODELS
- MID-COURSE PROJECT
- REINFORCEMENT LEARNING IN GENERATIVE AI

REAL-WORLD APPLICATION

- ETHICAL CONSIDERATIONS AND FAIR USE
- EXPLORING OTHER GENERATIVE MODELS
- INTEGRATING GEN AI INTO WEB AND MOBILE APPLICATIONS
- ADVANCED TOPICS AND FUTURE DIRECTIONS
- FINAL PROJECT DEVELOPMENT

SAMPLE LEARNING EXPERIENCE	Week 1	Week 2	Week 3	Week 4
Procured Self-Paced Learning	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>
Customized Assessment	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>
Instructor-Led	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>
Optional Office Hours	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>
Optional Q&A	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>