



7 Courses

**Generative AI and LLMs:
Architecture and Data
Preparation**

**Gen AI Foundational Models
for NLP & Language
Understanding**

**Generative AI Language
Modeling with Transformers**

**Generative AI Engineering
and Fine-Tuning
Transformers**

**Generative AI Advanced
Fine-Tuning for LLMs**

**Fundamentals of AI Agents
Using RAG and LangChain**

**Project: Generative AI
Applications with RAG and
LangChain**



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Umer Majeed

has successfully completed the online Specialization

Generative AI Engineering with LLMs

In this Specialization, learners developed essential knowledge and skills to perform tasks in an AI or NLP Engineer role. The Certificate holder has demonstrated a firm grasp and has practical experience of the various generative AI architectures and LLMs for developing NLP-based systems. They have demonstrated knowledge of tokenization, data loaders, transformers, attention mechanisms, and prompt engineering. They have gained experience in frameworks and LLMs, such as GPT and BERT. The Certificate holder can use PyTorch and the Hugging Face Transformers library to develop RAG applications such as a question-and-answering system. They can also use document loaders in LangChain to bring in information from various sources and prepare it for processing.

Joseph Santarcangelo,
Roodra Pratap Kanwar,
Fateme Akbari
Sina Nazeri, Kang
Wang, Ashutosh Sagar
Wojciech 'Victor' Fulmyk

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