At a Glance

Build a Retrieval-Augmented Generation (RAG) system for web data using LangChain and Llama 3.1-405b on watsonx.ai. In this guided project, you will set up the environment and configure LangChain to build a RAG system that generates real-time, context-aware responses from web data. This guided project is perfect for Python developers and data scientists looking to enhance their AI and language modeling skills in dynamic information retrieval.

Discover the power of integrating language models with retrieval systems using LangChain and Llama 3.1-405b on watsonx.ai. This guided project will teach you how to set up your environment and configure LangChain to build a Retrieval-Augmented Generation (RAG) system. By the end, you'll master generating context-aware, real-time responses from web data, showcasing the practical application of AI in dynamic information retrieval. Perfect for intermediate to advanced Python developers and data scientists eager to expand their AI and language modeling skills in a hands-on tutorial.

This hands-on project is based on the [Create a LangChain RAG system for web data in Python using Llama 3.1-405b in watsonx.ai](#) tutorial.

What you'll learn
After you complete the project, you will:

- Understand how to set up and configure LangChain for advanced language modeling tasks.
- Learn to use Llama 3.1-405b on watsonx.ai to enhance your language model's capabilities.
- Develop a Retrieval-Augmented Generation (RAG) system to generate context-aware, real-time responses from web data.

What you'll need
Prior to starting this guided project, you should have:

- Intermediate knowledge of Python programming.
- Basic understanding of natural language processing (NLP) concepts.
- Access to a current version of Chrome, Edge, Firefox, Internet Explorer, or Safari for the best experience.