

VIETNAM NATIONAL UNIVERSITY, HO CHI MINH CITY
UNIVERSITY OF TECHNOLOGY
FACULTY OF COMPUTER SCIENCE AND ENGINEERING



Natural Language Processing - Exercise (CO3086)

Lab 12

LangChain

Semester 2, Academic Year 2024 - 2025

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Students: Nguyen Quang Phu - 2252621

HO CHI MINH CITY, APRIL 2025

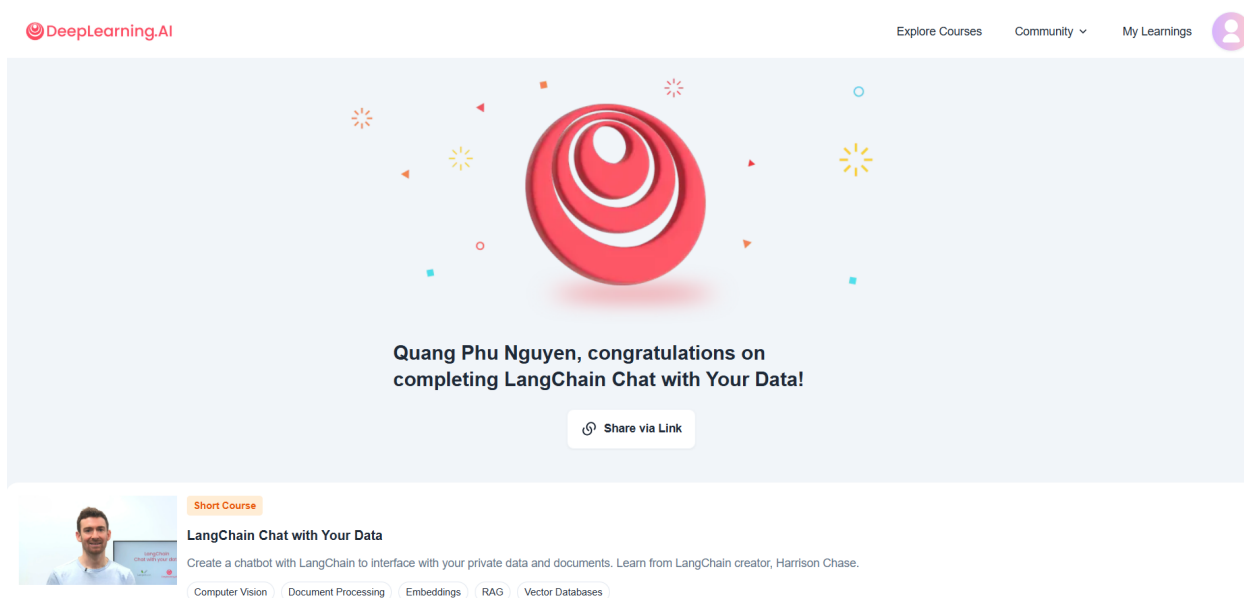
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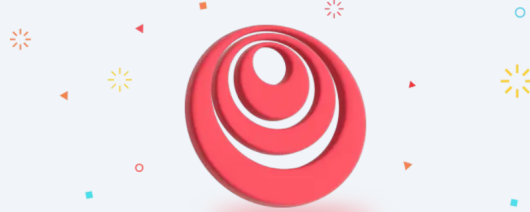
Chapter 1

Solution

1.1 LangChain



LangChain Chat with Your Data <Link>



Quang Phu Nguyen, congratulations on completing Functions, Tools and Agents with LangChain!

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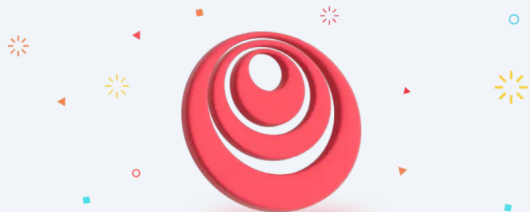


Short Course

Functions, Tools and Agents with LangChain

Learn about the latest advancements in LLM APIs and use LangChain Expression Language (LCEL) to compose and customize chains and agents.

Functions, Tools and Agents with LangChain [<Link>](#)



Quang Phu Nguyen, congratulations on completing Build LLM Apps with LangChain.js!

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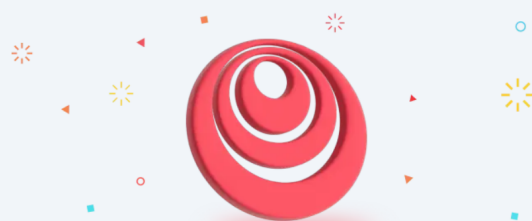
Short Course

Build LLM Apps with LangChain.js

Expand your toolkit with LangChain.js, a JavaScript framework for building with LLMs. Understand the fundamentals of using LangChain to orchestrate and chain modules.

[AI Frameworks](#) [Chatbots](#) [GenAI Applications](#) [Prompt Engineering](#) [RAG](#) [Search and Retrieval](#)

Build LLM Apps with LangChain.js [<Link>](#)



Quang Phu Nguyen, congratulations on completing LangChain for LLM Application Development!

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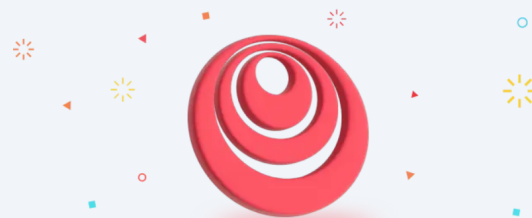


Short Course

LangChain for LLM Application Development

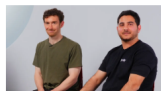
Use the powerful and extensible LangChain framework, using prompts, parsing, memory, chains, question answering, and agents.

LangChain for LLM Application Development <Link>



Quang Phu Nguyen, congratulations on completing AI Agents in LangGraph!

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Short Course

AI Agents in LangGraph

Build agentic AI workflows using LangChain's LangGraph and Tavily's agentic search.

AI Agents in LangGraph <Link>