

LLM Apps

Programming and LLM Apps

Never programmed before? Don't worry.

- There is an unfounded fear of programming among those who have never programmed before. Programming is, in a sense, like speaking a foreign language. In fact, learning to program is easier than learning to speak a foreign language.
- To get by in a foreign country, sometimes knowing some basic concepts is enough: how to hail a taxi, how to book a hotel room, etc. The same applies to programming.
- If you have never programmed or if you have programmed but do not have experience with the programming languages used in AI applications, don't worry. We will help you so that your stay in this new "foreign country" is as easy as possible.

What is the importance of programming in AI?

- Traditional AI applications, better known as Machine Learning or Deep Learning applications, use a very simple form of a programming language called Python.
- The new LLM applications also use a simple form of the Python language, but they also use other programming elements common to what are called "full-stack applications". We will see these elements little by little and very simply.

Our recommendation for learning to program

- Learning a programming language, just like learning a foreign language, can be an endless task in time and study materials. Imagine a student who wants to know everything about the German language.
- That is not the path we recommend. You don't need to know everything about the Python language or the other programming elements involved in an LLM Application.
- Our recommendation is:
 - First, study and understand the parts of an LLM Application at a conceptual level.
 - Then, identify the parts of Python and other programming elements involved.
 - Finally, study and practice only with those elements.
- In other words, to hail a taxi in Germany, you don't need to study 5 years of Germanic Philology.

A secret: today programming is easier than ever

- And the new AI has a lot to do with this.
- If you have never programmed, it is worth subscribing to ChatGPT-4, the premium version of chatGPT. For very little money a month, you will have the best programming assistant in the world, which can solve any doubts, program for you, or solve your errors.
- With that and free websites like web3schools.com, you will learn very quickly.

We will accompany you step by step

- Don't worry, we will explain the exercises step by step and provide you with the code with our written explanations so that you can repeat them step by step on your own.

The only secret is practice

- Mastering the programming necessary to build LLM Applications is within anyone's reach. The only secret is to practice.
- Remember: practice. Unlike other subjects that only require understanding or a bit of memory, the key to learning to program is to practice, practice, and practice. It is within anyone's reach, but it requires time and perseverance.
- If you are a company executive and will not be programming but will have a team of engineers who will be programming, it will also be very interesting for you to continue with the course, as although you will not need to practice programming, it will be very useful for you to understand the process to be able to lead your team of engineers or hire an external consultancy.

If you already have programming experience

- If you already have programming experience, you will be interested to know the main programming elements that we will use in the next sections:
 - Python.
 - Langchain, LlamaIndex, OpenAI API.
 - LangSmith, LangServe.
 - FAAIS, Postgres.
 - Streamlit.
 - FastAPI, Render.
 - Javascript.
 - React, Next.js, Vercel.
 - AWS S3.
- Don't let so many elements overwhelm you. We will accompany you step by step and you will see that the path will be simple.