

PyTorch and Deep Learning for Decision Makers (LFS116)

This course introduces you to PyTorch, one of the most popular deep learning frameworks, revealing how it can be used in your company to automate and optimize processes through the development and deployment of state-of-the-art AI applications. The course will help you identify the most common use cases of AI in the industry and how PyTorch's ecosystem and the commoditization of deep learning models can help you integrate them into your business. You will also learn why ensuring data quality is critical for the successful deployment of AI applications, and why getting the right data should be the top priority for any AI project. The course will discuss several trade-offs involved in choosing the appropriate model for the task at hand: build vs. buy, black vs. white box, and the risk and cost of delivering wrong predictions. Finally, the course will discuss what happens after an AI application is deployed, addressing topics such as the inherent limitations of AI models, the mitigation of risks and vulnerabilities, and the challenge of data privacy.

Duration: 4 Hours

Prerequisites for this course

No prerequisites needed.

Outline for this course

Chapter 1 – Why PyTorch? AI Applications in the Real World

Chapter 2 – Take Good C.A.R.E. of Your Data

Chapter 3 – “All Models are Wrong, but Some are Useful”

Chapter 4 – Challenges in Deploying and Maintaining Applications