

Updated 09/17/2024

Sign up

## Haystack training

2 days (14 hours)

### Presentation

Our Haystack training course will enable you to code applications within a high-level framework guaranteeing the flexibility, scalability and maintenance of your applications. Haystack is designed to ensure that your application remains scalable even as the technology stack evolves, user needs change and new features are added.

With this program, you'll learn how to use Haystack's robust and flexible architecture and framework for building AI applications. You'll be able to manage complexity and help you focus on developing your application at a higher level of abstraction.

The course is structured to offer a balance between theory and practice, enabling participants to immediately apply the concepts acquired in practical exercises.

Like all our training courses, it will be run on the latest version of the tool: [Haystack 2.5](#).

### Objectives

- Understand Haystack architecture and components at an advanced level
- Model entities and build master data models
- Create complex data pipelines for your applications

### Target audience

- Software developers
- AI engineers
- Data scientists

### Prerequisites

- A good knowledge of python
- Basic knowledge of application creation

## OUR HAYSTACK TRAINING PROGRAM

### INTRODUCTION TO PROJECT HAYSTACK

- Introducing Project Haystack and its objectives
- The benefits of using Haystack tags for data modeling
- Data challenges solved by Project Haystack
- Overview of official resources available

### HAYSTACK TAG SYNTAX AND TYPES

- Exploring the different types of Haystack tags
- Use of syntax for each data type
- Supported tag collection types and file formats

### TAG DEFINITION AND RELATIONSHIP THEORY

- Understand how entities form data models using the libraries on the Project Haystack website
- Documentation and definition of tags, exploration of supertypes, subtypes, children and prototypes
- Using Project Haystack source definitions on GitHub

### CREATION OF SIMPLE AND COMPLEX DATA MODELS

- Process of creating a data model, identifying and describing entities with tags
- Add references and refPointers to structure relationships
- Examples of data models for specific equipment and sites

### PRACTICAL USE OF HAYSTACK IN REAL-LIFE SITUATIONS

- Integration of Haystack tags to create data models for various equipment and sites
- Practical examples of tag application in real-life scenarios

### COURSE SUMMARY AND FINAL EVALUATION

- Course learning summary

- Final assessment to demonstrate knowledge acquired and ability to apply Haystack tags in a variety of contexts

## Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

## Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

## Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

## Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

## Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

## Sanction

A certificate will be issued to each trainee who completes the course.