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Sign up

MindsDB training: AI Fine-Tuning

2 days (14 hours)

Presentation

Our MindsDB training course will enable you to create tailor-made language models based on your company's data. Powered by hundreds of integration tools, this service will help you make the most of your data.

Our program will start with an introduction to how generative AI works, where you'll learn how to manipulate an [LLM](#) and design an architecture for specialized models and agents.

Following this course, you'll be able to install and configure MindsDB and design AI projects that benefit from your data. Take advantage of automated fine-tuning with Anyscale Endpoints. We'll also teach you how to implement semantic search with RAG.

We'll be teaching you the latest version of this free, open-source tool, [MindsDB 24](#).

Objectives

- Mastering prompt engineering best practices
- Configure and deploy AI models with MindsDB
- Automate fine-tuning of AI models
- Create a customized AI agent

Target audience

- Data Scientist
- Big Data Engineer
- Machine Learning Engineer
- Lead Developer
- Developers

- AI Engineers

Prerequisites

- An LLM installed (preferably Mistral)
- Mastering SQL

MindsDB training program

Introduction

- The problem of generalist LLMs
- How do generative AIs work?
- Prompt engineering best practices
- Custom AI use cases
- How do you create your own language templates?
- The MindsDB solution
 - Model management
 - AI integrations
 - Data integration
 - Automation features

Getting started

- MindsDB installation
- Configuring MindsDB
- Architectural overview
- Syntax overview
- Connect a data source
- Configuring an AI engine
- Deploying an AI model
- Creating queries
- Automate your tasks

Automated fine tuning with Mistral

- Introducing Anyscale Endpoints
- Installing Anyscale Endpoints
- Load data
- Setting up the model
- Automate fine-tuning
- Apply predictive models
 - Classification
 - Regression

Create your AI agent

- Architecture for AI agent creation
- Creating your knowledge base
- Creating your data source
- Configuring text-to-SQL queries
- Adding a database to your chatbot
- Development of a chatbot that learns from company data

AI queries

- Semantic search with RAG
 - From a URL
 - From a file
 - From a database

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.

