Using Local Artificial Intelligence (Local LLMs) in Organizations Training

Duration: **2 Day**

BİLGİNÇ IT Academy
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Overview

The Using Local Artificial Intelligence (Local LLMs) in Organizations training course is designed for professionals who want to run large language models on their organization's own computers and servers. The course focuses on using AI technologies locally without having to transfer corporate data to cloud-based services.

Through hands-on activities, participants learn how to download, run, and configure open-source language models using tools such as LM Studio and Ollama. The training also covers model settings, system requirements, and practical approaches to incorporating local language models into everyday business workflows.

Data privacy, information security, GDPR and Turkish Personal Data Protection Law (KVKK) considerations, hardware investments, and operating costs are also addressed. By the end of the course, participants will be better equipped to assess whether local AI solutions are suitable for their organization's technical and operational requirements.

Prerequisites

Basic computer skills and introductory familiarity with generative AI tools are recommended.

Who Should Attend

- Employees who want to use AI tools without transferring sensitive organizational data to cloud services
- IT support professionals and end-user services teams
- Business professionals who regularly handle confidential or personal information
- Information security, data protection, and KVKK compliance specialists
- Team leaders and managers responsible for planning AI adoption within their organizations

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What You Will Learn

Upon completing this training, you will be able to:

- Compare cloud-based and locally deployed AI models according to organizational requirements.
- Evaluate the potential benefits of local AI for data privacy, information security, and cost management.
- Identify the hardware specifications and system requirements needed to run local language models.
- Search for open-source models on Hugging Face and interpret the information provided in model cards.
- Assess different model formats and quantization options based on intended use cases.
- Download and run language models on your own computer using LM Studio.
- Configure model parameters and system instructions for specific business scenarios.
- Manage local language models through the Ollama command-line interface.
- Set up AI assistants tailored to organizational needs and prepare them for team use.
- Create a web-based interface for interacting with local models using Open WebUI.
- Implement question-answering applications using internal corporate documents and locally running AI models.

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Outline

1. Introduction to Local AI and Enterprise Applications

- Overview of local artificial intelligence technologies
- Key reasons organizations adopt locally deployed AI solutions
- Comparison of cloud-hosted and locally running language models
- Evaluating local AI from data privacy, GDPR, and KVKK perspectives
- Comparing subscription and token-based expenses with hardware investment costs

2. Hardware Requirements and System Preparation

- Identifying CPU, GPU, and memory requirements for local language models
- Understanding the role of GPU memory (VRAM) in model performance
- Preparing Windows, macOS, and Linux environments for installation
- Hardware acceleration with NVIDIA CUDA and Apple Metal

3. Exploring Open-Source Language Models

- Finding suitable language models on the Hugging Face platform
- Reviewing model cards and interpreting technical specifications
- Comparing GGUF, AWQ, and EXL2 model formats
- Understanding how quantization techniques affect inference speed and output quality

4. Running Local Models with LM Studio

- Downloading and running open-source language models using LM Studio
- Adjusting model configurations and system instructions for different business requirements

5. Enterprise AI Use Cases with Ollama

- Managing local language models through the Ollama command-line interface
- Configuring AI assistants for organization-specific requirements
- Using Open WebUI to provide web-based chat interfaces
- Building question-answering workflows with internal company documents and local models
- Exploring how local AI solutions can support team workflows

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