# Develop, Test, and Run Granite Family LLMs with Red Hat Enterprise Linux AI (AI296) Training

Duration: **3 Day**

BİLGİNÇ IT Academy
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Gain essential hands-on experience in fine-tuning, deploying, and utilizing generative AI models through **Red Hat Enterprise Linux AI**.

The course **"Develop, Test, and Run Granite Family LLMs with Red Hat Enterprise Linux AI (AI296)"** offers foundational knowledge on how to customize, host, and apply generative AI models that meet specific business requirements. Participants will develop practical skills to train models within a **secure, private, and enterprise-ready environment**.

> *This course content is aligned with Red Hat Enterprise Linux AI version 1.5.*

### Impact on Organizations

By leveraging **Red Hat Enterprise Linux AI**, enterprises can safely develop and deploy **customized large language models** built around their data and security requirements—empowering smarter automation, analytics, and decision-making.

### Impact on Individuals

After completing this course, you will:

- Understand the foundations of **generative AI**
- Recognize the strengths of **Granite models** in enterprise use cases
- Gain the ability to **train, deploy, and serve** LLMs securely with Red Hat Enterprise Linux AI

## Prerequisites

- A basic understanding of **Artificial Intelligence (AI)** and **Machine Learning (ML)** concepts (recommended, not mandatory).
- Familiarity with **Linux command-line operations**.

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## Who Should Attend

This course is designed for:

- **Data Scientists and AI Engineers** interested in learning about Granite models and fine-tuning methods for business applications.
- **Developers and ML Practitioners** seeking to build, test, and operate AI-driven enterprise solutions securely.
- **System Administrators** managing hybrid cloud infrastructures and integrating generative AI workflows with compliance and security in mind.
- **Business Experts and SMEs** contributing to AI model training aligned with their organizational goals.

## What You Will Learn

- **Generative AI Essentials:** Learn about key capabilities, challenges, and leading model architectures.
- **Granite Models in Enterprise AI:** Explore how Granite models address real-world enterprise scenarios.
- **Training LLMs with Red Hat Enterprise Linux AI:** Understand the processes behind model training and fine-tuning.
- **Deploying Custom Models:** Learn how to serve and manage trained generative AI models efficiently.

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## Training Outline

**1. Generative AI Fundamentals**
Discover what generative AI is, why it matters, and how to identify the right models and techniques for various use cases.

**2. Granite Models for Enterprise AI**
Explore the Granite model suite and how it compares to larger, closed models for solving enterprise-level challenges.

**3. Training Large Language Models (LLMs)**
Collaborate across technical and non-technical teams to train business-specific LLMs using**Red Hat Enterprise Linux AI** and **IBM Granite**.

**4. Deploying Trained Models**
Learn to deploy, serve, and manage fine-tuned generative AI models using Red Hat's secure AI infrastructure.