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

Duration: **3 Day**

BILGINÇ 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.