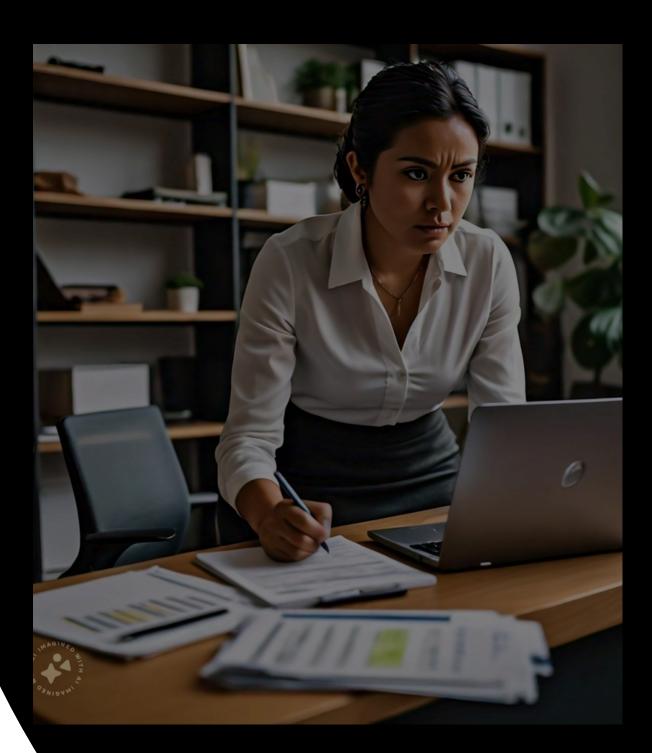




ANSIBLE



OUR MISSION:



"Our mission is to empower learners worldwide through innovative technology, personalized learning experiences, and accessible educational resources. We strive to cultivate a community where every individual can achieve their full potential, regardless of their background or circumstances."

OUR VALUES:

"To pioneer the future of education by leveraging cutting-edge technology to make learning more engaging, effective, and inclusive. We envision a world where education transcends boundaries, creating opportunities for lifelong learning and fostering a society enriched by knowledge and creativity."

Week 1: Introduction and Setup

- Day 1-2: Overview of GitLab
 - Introduction to GitLab, its features, and use cases.
 - Setting up GitLab (cloud and self-hosted options).
- Day 3-4: Overview of Ansible
 - Introduction to Ansible, its architecture, and use cases.
 - Installing and configuring Ansible.
- Day 5: Basic Operations
 - Hands-on: Basic GitLab workflows (creating repositories, branches).
 - Hands-on: Writing and running simple Ansible playbooks.

Week 2: Advanced GitLab Features

- Day 1-2: GitLab CI/CD
 - Introduction to GitLab CI/CD pipelines.
 - Writing .gitlab-ci.yml files.
- Day 3-4: GitLab Runners
 - Setting up and managing GitLab Runners.
 - Using shared and specific runners.
- Day 5: Pipeline Optimization
 - Best practices for optimizing CI/CD pipelines.
 - Hands-on: Creating a complex CI/CD pipeline.

Week 3: GitLab Advanced Topics

- Day 1-2: GitLab Security Features
 - o Implementing security scans in pipelines.
 - Managing access controls and permissions.
- Day 3-4: GitLab Package and Container Registry
 - Using GitLab's package and container registries.
 - Hands-on: Publishing and managing packages and containers.
- Day 5: GitLab Pages and Releases
 - Setting up GitLab Pages for static site hosting.
 - Managing releases and versioning in GitLab.

Week 4: Advanced Ansible Features

- Day 1-2: Ansible Inventory and Variables
 - Managing inventories and variables.
 - Dynamic inventories and Ansible Vault.
- Day 3-4: Advanced Playbooks and Roles
 - Writing complex playbooks with handlers, loops, and conditionals
 - Structuring Ansible code with roles and collections.
- Day 5: Ansible Galaxy
 - Using and creating Ansible roles from Ansible Galaxy.
 - Hands-on: Publishing a role to Ansible Galaxy.

Week 5: Ansible for Infrastructure Automation

- Day 1-2: Provisioning with Ansible
 - Using Ansible for cloud provisioning (AWS, Azure, GCP).
 - Hands-on: Creating infrastructure with Ansible.
- Day 3-4: Configuration Management
 - Managing system configurations with Ansible.
 - Hands-on: Configuring applications and services.
- Day 5: Ansible and Docker
 - Managing Docker containers with Ansible.
 - Hands-on: Deploying and managing containerized applications.

Week 6: Integrating GitLab and Ansible

- Day 1-2: GitLab and Ansible Integration
 - Setting up GitLab CI/CD to trigger Ansible playbooks.
 - Hands-on: Creating an integrated CI/CD pipeline.
- Day 3-4: Infrastructure as Code (IaC)
 - Implementing IaC with GitLab and Ansible.
 - Hands-on: Managing infrastructure lifecycle with GitLab and Ansible.
- Day 5: Continuous Deployment
 - Setting up continuous deployment pipelines.
 - Hands-on: Deploying applications using GitLab and Ansible.

Week 7: Advanced Automation and Orchestration

- Day 1-2: Ansible Tower/AWX
 - Introduction to Ansible Tower/AWX.
 - Setting up and using Ansible Tower/AWX for automation.
- Day 3-4: Advanced Orchestration
 - Orchestrating complex workflows with GitLab and Ansible.
 - Hands-on: Implementing a complex orchestration scenario.
- Day 5: Monitoring and Logging
 - o Integrating monitoring and logging in CI/CD pipelines.
 - Hands-on: Setting up monitoring for automated workflows.

Week 8: Final Project and Presentations

- Day 1-4: Project Development
 - Students work on a comprehensive final project that integrates multiple aspects of the curriculum.
- Day 5: Project Presentation and Evaluation
 - Students present their projects.
 - Feedback and evaluation.

Our Partners Company's

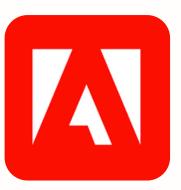


























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