

## **Week 5: Containerization Basics**

### **Topics :**

- Docker fundamentals: images, containers, volumes, and networks.
- Docker Compose for multi-container applications.

### **Assignments:**

1. Containerize a microservices-based e-commerce application:
  - One service for product catalog (Python/Flask).
  - Another service for orders (Node.js).
  - A shared database container (MySQL).
2. Use Docker Compose to:
  - Orchestrate the services.
  - Configure persistent storage for the database.