

# MLOps project-based course

- Week 1: Get into data science

- Course Overview
- Introduction to MLOps
- Preparing the environment for the course
- Dataset discussion
- EDA to gain insight

- Week 2-3: Exploring Data & Deriving information

- Understanding the project's scope
- Deep dive into the dataset
- Data quality check
- Handling missing values
- Feature engineering for machine learning
- Applying machine learning using **scikit-learn/TensorFlow**
- Evaluate and interpret the model
- How can we make decisions from the model's output

- Week 4-6: Building a Data Pipeline

- Workflow orchestration
- Understanding our data pipeline
- Turning our notebook into a pipeline
- Deployment of the data pipeline using **Airflow**
- Data versioning using **DVC**
- Testing the data pipeline

- Week 7-9: Deploying & Monitoring Model

- ML experiment tracking using **MLFlow**
- Deploy the model
- Getting the model's output
- Model Monitoring
- Running full project