

Updated on 18/09/2023

Sign up

Metaflow training

3 days (21 hours)

Presentation

Metaflow pushes the limits of Python: We use well-parallelized and optimized Python code to retrieve data at 10 Gbps, manage hundreds of millions of data points in memory and orchestrate computation on tens of thousands of CPU cores. Metaflow is a Python framework that facilitates the execution of Machine Learning projects from prototype to production. Netflix's tool helps data scientists deploy machine learning models for production faster. It helps you design your workflow, run it at scale and deploy it in production. It automatically versions and tracks all your experiments and data. It lets you easily inspect results on laptops. To help data scientists process data from all kinds of companies, Netflix's data-science team has opened up its Metaflow Python library. It's a key part of Netflix's machine learning infrastructure. Python is the "human-centered" Python that the data-science team uses to build and deploy workflows for their business. As with all our training courses, this one will introduce you to the latest stable version and its new features (based on [Python 3.9](#)).

Objectives

- Setting up a Metaflow architecture
- Discover the advantages and disadvantages of Metaflow
- Using Metaflow on AWS and Tensorflow

Target audience

Developers, Architects

Further information

If you're a .NET developer, don't be unhappy - we've got training on [Steeltoe & .NET microservices](#) too!

Metaflow training program

Introduction to Metaflow

- Why Metaflow
- What is Metaflow

Getting started

- Metaflow installation
- Tutorials

Metaflow on Amazon Web Service

- Metaflow on AWS
- Metaflow Sandbox
- Deployment on AWS

Metaflow with Tensorflow

- Metaflow on Tensorflow
- Deployment on Tensorflow

Development with Metaflow

- The basics
- Inspection of flows and results
- Debugging with Metaflow
- Scaling and augmentation
- Data loading and storage
- External library management
- Troubleshooting
- Results organization

Metaflow in-house

- Technical overview: EC2 instance
- Metaflow development and testing in an S3 environment
- EDI: VSCode & PyCharm

Companies concerned

This course is aimed at both individuals and companies, large or small,

wishing to train its teams in a new advanced IT technology, or to acquire specific business knowledge or modern methods.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.