

Python 200 Overview

Module 1: Machine Learning

- Week 1: Hello ML Week 2: Classification in scikit-learn
- Week 3: Machine vision with PyTorch
- Week 4: Training, transfer learning and object detection. Train, retrain a network to identify new objects. Object detection and its metrics.

Module 2: AI

- Week 1: Hello AIhttps: From large-language-models to chatbots.
- Week 2: Retrieval-augmented generation: Building external knowledge-sources into LLM applications.
- Week 3: Agents: Giving AI systems the ability to plan and use external tools.

Module 3: Cloud Computing

- Week 1: Hello Cloud: Intro to general cloud concepts, and working with the Azure CLI to deploy python modules.
- Week 2: AI in the Cloud: Learn how to spin up cloud compute resources and deploy an AI application.
- Week 3: ML in the Cloud: Introduction to cloud-based storage Blob Storage in the context of running ML pipelines.
- Week 4: ETL Pipelines: Work with database management systems in the context of building ETL pipelines.