



Customer

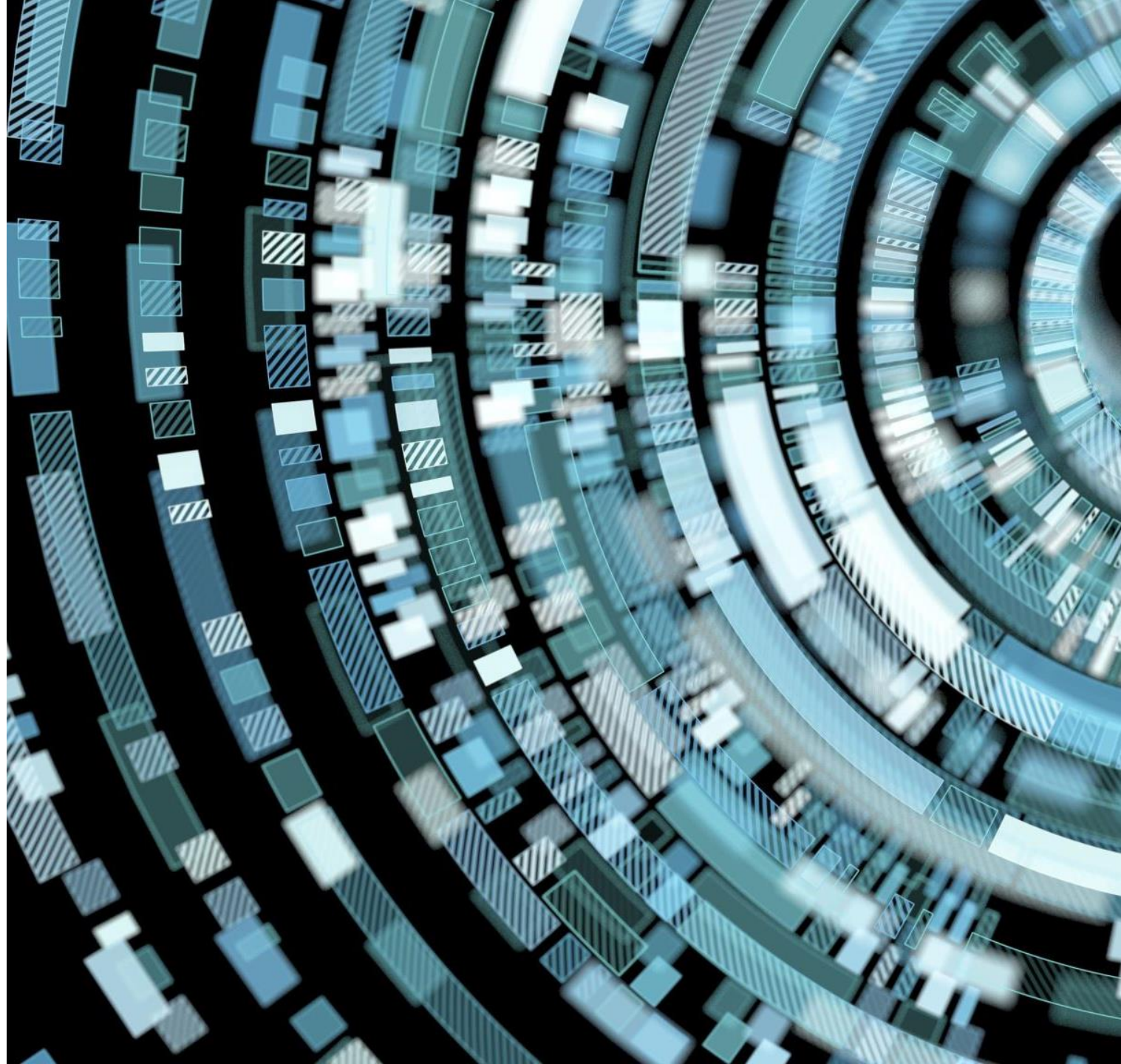
Azure AI workshops

Date



Microsoft

- Serge Retkowsky
serge.retkowsky@microsoft.com



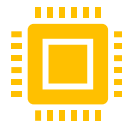
Workshop Prerequisites



Activate and Access an
[Azure Subscription](#)



Create an Azure Machine
Learning Workspace in the
Azure Portal : [LINK HERE](#)



Account for Azure DevOps :
[LINK HERE](#)



Prerequisites by Role

App Developers : VS Code, Python

ML Engineers : No prerequisites

Citizen Data Scientists : Python,
Jupyter Notebooks

Business Data Scientists : No
prerequisites

Enterprise Architects : Cloud
Policies and Security



**Recommended Azure ML
training on Microsoft
Learn**

ML with Code:

<https://docs.microsoft.com/en-us/learn/paths/build-ai-solutions-with-azure-ml-service>

ML with No Code / Low Code:

<https://docs.microsoft.com/en-us/learn/paths/create-no-code-predictive-models-azure-machine-learning>

ML at the Edge for IoT:

<https://docs.microsoft.com/en-us/learn/paths/ai-edge-engineer>

Workshop 1

Azure ML fundamentals

- Presentation and demo of Azure ML.
- Presentation of Azure documentation resources & certifications path.

Workshop 2

Azure ML fundamentals

- Hands-on labs:
 1. Azure ML experimentations
 2. AutoML with Azure ML Python SDK
 3. Estimators with Azure ML Python SDK
 4. Interpretation & Fairness of ML models
 5. Hyperparameter tuning with Azure ML
 6. Model deployment

Workshop 3

No Code with Azure ML

- Hands-on labs:
 1. AutoML graphical user interface
 2. Azure ML Designer interface for building no code pipelines
 3. PowerBI Integration

Workshop 4

Azure Computer Vision

- Introduction to Azure Cognitive Services.
- Deep dive on Azure Computer Vision presentation.
- Hands-on lab:
 1. Training of a custom vision model
 2. Validation and deployment of a custom vision model

[retkowsky/Azure-CognitiveServices-Labs: Azure Cognitive Services Labs \(github.com\)](https://github.com/retkowsky/Azure-CognitiveServices-Labs)

Workshop 5

MLOps

- Introduction to MLOps
- Hands-on lab:
Implementing CI/CD pipeline using GitHub Action & Azure DevOps

[MLOpsPython/getting_started.md at master · microsoft/MLOpsPython \(github.com\)](#)

Workshop 6

Azure Databricks

- Azure Databricks presentation
- Hands-on lab:
 1. Data preparation
 2. ML with Azure Databricks
 3. Model deployment
 4. Azure ML integration

[AMLLabs/DatabricksArchive at main · retkowsky/AMLLabs \(github.com\)](https://github.com/retkowsky/AMLLabs)