

Microsoft Cloud Workshop : Machine Learning

In this whiteboard design session, you will work with a group to design and implement a solution that combines Azure Databricks with Azure Machine Learning service to build, train and deploy the machine learning and deep learning models. You will learn how to use automated machine learning, model lifecycle management from training to deployment, in batch and real-time inferencing scenarios, and construct deep learning models for Natural Language Processing (NLP) in text classification and forecasting against time-series data. Finally, you'll learn to compare data with PyTorch and Keras for deep learning.

Détails

- **Code** : Cloud-ML
- **Durée** : 1 jour (7 heures)

Public

- Acteurs des services informatiques
- Data Analysts
- Data Managers
- Data Scientist
- Ingénieurs
- Ingénieurs Logiciels
- Professionnels de l'informatique

Pré-requis

Objectifs

- The capabilities and implementation solutions of Azure Machine Learning and Azure Databricks.

Programme

Module 1: Whiteboard Design Session – Machine Learning

- **Lessons**
 - Review the customer case study
 - Design a proof of concept solution
 - Present the solution

- Creating a forecast model using automated machine learning
- Understanding the automated ML generated forecast model using model explainability
- Creating a deep learning model (RNN) for time series data and registering the model
- Using a forecast model for scoring of streaming telemetry
- Creating a deep learning text classification model

Module 2: Hands-on lab – Machine Learning

- **Lessons**

Modalités

- **Type d'action** :Acquisition des connaissances
- **Moyens de la formation** :Formation présentielle – 1 poste par stagiaire – 1 vidéo projecteur – Support de cours fourni à chaque stagiaire
- **Modalités pédagogiques** :Exposés – Cas pratiques – Synthèse
- **Validation** :Exercices de validation – Attestation de stages