

Designing and Implementing Data Science Solutions on Microsoft Azure

Détails

- Code : DP-100
- Durée : 4 jours (28 heures)

Public

- Administrateurs systèmes et réseaux
- AI developers
- Azure Solution Architects
- Business Intelligence professionals
- Cloud Solution Architects
- Consultants
- Consultants IT
- Data Analysts
- Data Scientist
- Developers IT
- Développeurs Cloud
- Entrepreneur IA
- IA Developers
- Ingénieurs Systèmes
- IT Professionals

Pré-requis

Objectifs

- see program description

Programme

1: Design a machine learning solution

- Design a data ingestion strategy for machine learning projects
- Design a machine learning model training solution
- Design a model deployment solution

2: Explore the Azure Machine Learning workspace

- Explore Azure Machine Learning workspace resources and assets
- Explore developer tools for workspace interaction

3: Make data available in Azure Machine Learning

- Make data available in Azure Machine Learning

4: Work with compute in Azure Machine Learning

- Work with compute targets in Azure Machine Learning
- Work with environments in Azure Machine Learning

5: Use no-code machine learning with the Azure Machine Learning Designer

- Explore data with the Azure Machine Learning Designer
- Train and compare models with the Azure Machine Learning Designer

6: Automate machine learning model selection with Azure Machine Learning

- Explore Automate Machine Learning
- Find the best classification model with Automated Machine Learning

Learning

7: Use notebooks for experimentation in Azure Machine Learning

- Track model training in Jupyter notebooks with MLflow

8: Train models with scripts in Azure Machine Learning

- Run a training script as a command job in Azure Machine Learning
- Track model training with MLflow in jobs

9: Optimize model training in Azure Machine Learning

- Run pipelines in Azure Machine Learning
- Perform hyperparameter tuning with Azure Machine Learning

10: Manage and review models in Azure Machine Learning

- Register an MLflow model in Azure Machine Learning
- Manage and compare models in Azure Machine Learning

11: Deploy and consume models with Azure Machine Learning

- Deploy a model to a managed online endpoint
- Deploy a model to a batch endpoint

12: Design a machine learning operations (MLOps)

solution

- Design a machine learning operations (MLOps) solution

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