



Course Name	Oracle Cloud Infrastructure Data Science Professional		
Course Duration	2 Days (16 hours)		
Target Audience	Data Analyst, Data Scientist, ML Engineer		
Course Outcomes	Identify OCI services to implement an ML solution for a business use case.		
	Incorporate ML and cloud best practices.		
	Use OCI Data Science to ingest, design, build, train, optimize, deploy,		
	integrate, and maintain ML models.		
	Apply OCI Data & Al services to create ML solutions.		

Module 01: Introduction and Configuration		
1.1	Data Science: Introduction	
1.2	ADS SDK Overview	
1.3	Tenancy Configuration Basics	
1.4	Configure a Tenancy with OCI Resource Manager	
1.5	Networking for Date Science	
1.6	Authenticate to OCI APIs	
Module 02: Workspace Design and Setup		
2.1	Projects	
2.2	Notebook Sessions	
2.3	How to Work with JupyterLab	
2.4	Conda Environments: Overview	
2.5	Data Science Conda Environments	
2.6	Manage Conda Environments	
2.7	Demo: Manage Conda Environments	
2.8	OCI Vault: Introduction	
2.9	Using OCI Vault in OCI Data Science	
3	Code Repositories (Git)	
3.1	Demo: Code Repositories (Gi t)	
Module 03: Machine Learning Lifecycle		
3.1	ML Lifecycle: Overview	
3.2	Access Data	
3.3	Date Preprocessing	
3.4	Demo: Data Preprocessing	
3.5	Introduction to Feature Types	
3.6	Custom Feature Types	
3.7	Data Visualization	
3.8	Model Training	
3.9	Oracle AutoML: Introduction	
3.11	Demo: Oracle Auto ML	
3.12	Hyperparameter Tuning: ADSTuner	
3.13	Model Evaluation	
3.14	Model Explanations: Global Explainer	
3.15	Model Explanations: Local Explainer	

3.16	Model Catalos: Overview	
3.17	Model Serialization	
3.18	Model Deployment	
3.19	Demo: Model Deployment	
Module 04: MI-Ops Practices		
4.1	MLOps Architecture	
4.2	Data Science Jobs	
4.3	Demo: Create Artifacts	
4.4	Demo: Create and Manage Jobs	
4.5	Demo: Start and Manage a Job Run	
4.6	Demo: Scaling	
4.7	Jobs Monitoring and Logging	
Module 05: Related OCI Services		
5.1	Spark Applications, Data Flow, and Data Science	
5.2	Oracle Open Data	
5.3	OCI Data Labeling	
5.4	AI Perceptual Services	
5.5	Demo: AI Perceptual Services	
5.6	Oracle AI Decision Services	
5.7	Demo: Oracle AI Decision Services	