



BIG DATA & AI ARCHITECT

GRADEO : Certificates leading to jobs



OVERVIEW

The AI and Big Data architect must master 3 environments at the heart of this GRADEO :

- The management of DATA, both structured with pre-definition of a fixed schema (SQL3, OQL), semi-structured with meta data (SparQL) and unstructured (NOSQL, New SQL) as well as the concepts of DATA WAREHOUSE and DATA LAKE.
- The analysis of DATA with computer methods (Data Mining and OLAP), statistics (Machine learning in supervised or unsupervised mode) or based on AI with the fundamental approach of Deep Learning (multi-layer neural networks)

HOW DOES IT WORK ?

- 6 MONTHS
- 3 COURSES
- 100% ONLINE



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GRADUATE ACADEMIC COURSES FROM MSC BIHAR (ESTIA)

ARTIFICIAL INTELLIGENCE (MACHINE LEARNING & DEEP LEARNING)

- ✔ Mathematical tools for AI
- ✔ The basics of Machine Learning
- ✔ The basics of Deep Learning
- ✔ Learning with Deep Learning
- ✔ Computer vision, natural language
- ✔ Software for Machine Learning

DISTRIBUTED BIG DATA

- ✔ BIG DATA paradigms and Codd relational data model for structured data
 - ✔ Introduction to SQL2, relational SQL
- ✔ Chris Date's third manifesto for hybrid objectrelational data models
 - ✔ Introduction to ODMG
- ✔ Introduction to SQL3, object-relational SQL
- ✔ NOSQL and NEWSQL for unstructured data



INDUSTRIAL COURSE DELIVERED BY ORACLE UNIVERSITY

MACHINE LEARNING ON ORACLE SLS

- ✔ Program with Oracle SQL and PL/SQL
- ✔ Create procedures, functions, packages, and triggers using PL/SQL
- ✔ Describe the components and feature of Oracle Machine Learning (OML)
 - ✔ Use OML features with Oracle Autonomous Database
 - ✔ Identify Oracle Cloud Services that are compatible with OML
- ✔ Create projects, workspaces, SQL scripts, job schedules, templates, and notebooks in OML
 - ✔ Describe OML use cases



THE SUCCESS OF THIS GRADEO ALLOWS YOU TO OBTAIN :
AN ESTIA CERTIFICATE CORRESPONDING TO 6ECTS &
THE ORACLE MACHINE LEARNING USING AUTONOMOUS DATABASE 2021 SPECIALIST (1Z0-1096-21).



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