



University of Bahrain MICRO-CREDENTIAL



Machine learning

GENERAL INFORMATION

Duration: 8 Weeks

Total Hours: 120 hours

Venue: University of Bahrain

Fees: 240 BHD

Credits: 3 credits (B.Sc. in
Statistics and Data Science)

Level: Undergraduate

Language: English

Pre-requisite:

Background in mathematics,
statistics, and programming skills

INSTRUCTOR BIOGRAPHY



Dr. Sawsan Hilal

Dr. Sawsan Hilal holds a Ph.D. in statistics from Lancaster University and an M.Sc. in mathematics from the University of Bahrain. Her research focuses on Data Science and Financial Risk Management. She is the coordinator of the M.Sc. in Big Data Science and Analytics and won the VIWA 2018 "Distinguished Woman in Science – Statistics" award.



Micro-credential is a short, focused course designed to equip learners with specific skills and knowledge within a specialized area. It serves as a pathway to earning an equivalent certification for a core course, offering a flexible and targeted learning experience.

COURSE OVERVIEW

This is a credited micro-credential course with an interactive learning experience delivered over two months with a total of 120 notional hours distributed between online lectures, physical practical sessions, self-learning, hands-on assignments and capstone project. This micro-credential is an intensive course that is designed to equip participants with a variety of most in-demand machine learning algorithms to build effective predictive models for data-driven that would guide future action using data-driven decisions. Then, participants who successfully complete the course will be eligible to a credit transfer.

DELIVERY MODE

The course will be delivered over two days per week, so that lectures and tutorials will be delivered online, while practical sessions will be delivered physically.

ASSESSMENTS

Online Quizzes: 30%
Hands-On Assignments: 30%
Capstone Project & Presentation: 40%

TARGET AUDIENCE

- Students and academics interested in machine learning.
- Practitioners seeking to apply advanced algorithms for data analysis and predictive modeling.

KEY TOPICS COVERED

- Introduction to Machine Learning (Supervised and Unsupervised Learning)
- Neural Networks
- Convolutional Neural Networks
- Deep Learning Models
- Linear Regression and Logistic Regression
- Decision Trees, Naïve Bayes, K-Nearest Neighbors
- K-means Clustering and Support Vector Machines
- Capstone Project Presentation



Scan the code
for Registration

For further Information, please contact:

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<https://microcredentials.uob.edu.bh/>