

# ARTIFICIAL INTELLIGENCE ANALYST TRAINING



UNIVERSITY  
OF WOLLONGONG  
IN DUBAI

## Learn how to leverage the power of Artificial Intelligence to transform your business and automate decision making

### PROGRAM OVERVIEW

AI and machine learning are changing our world and powering the 4th Industrial Revolution. Due to the ability of machines to learn from past experiences, AI is poised to open the door to business automation. AI-powered solutions can help companies gain a competitive advantage by creating better products and services tailored to their customers, reduce risk of failures or downtime, reduce costs thanks to predictive maintenance, increase operational efficiency, improve safety and compliance, instantly process data, and to get a better understanding of their customers.

In partnership with IBM's skills academy, the UOWD's Artificial Intelligence Analyst Training introduces professionals to AI concepts such as machine learning, natural language processing (NLP), chatbots, and computer vision. Attendees will gain knowledge and hands-on skills in AI topics and will apply the concepts they learn to practical examples and case studies, by using IBM Watson services and other cloud-based tools. Furthermore, upon the successful completion of the training and exam, attendees will be awarded IBM's Artificial Intelligence Analyst's Mastery Badge.

### WHAT THE PROGRAM COVERS

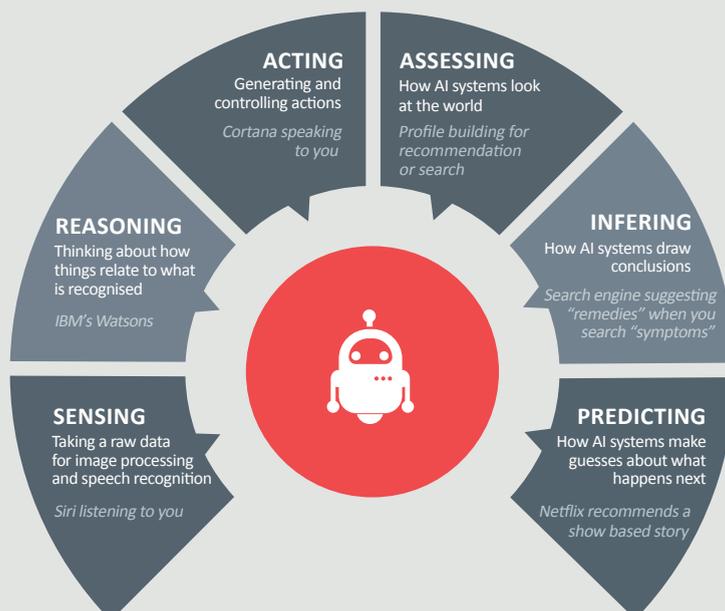
This program will allow participants to:

- Acquire knowledge and practical skills in the design and implementation of AI-based solutions.
- Gain an in-depth understanding of AI related concepts, including - machine learning, natural language processing (NLP), computer vision, applications of AI in the industry and government and applying machine learning algorithms to specific problems.
- Analyse scenarios and use cases for potential transition to an AI-based solution.
- Apply the learned concepts and gain hands-on skills with practical AI platforms and tools, such as Watson Studio.
- Obtain an IBM Digital Certification in Artificial Intelligence.

### KEY PROGRAM BENEFITS

Upon completing this training you will be able to:

- Ensure that your business/organisation stays relevant by exploring the opportunities for AI-based solutions.
- Analyse the suitability and potential benefits of AI deployments in your organisation.
- Design, implement and deploy Artificial Intelligence applications, using the IBM Watson services.
- Secure Artificial Intelligence-based applications.
- Integrate Artificial Intelligence-based applications with existing systems.
- Become a certified Artificial Intelligence Analyst.



## WHO SHOULD TAKE THIS COURSE

This course is ideal for senior managers, middle managers, entrepreneurs and business owners who have a keen interest in investing in and adopting the Artificial Intelligence technology. It is also aimed at those in more technical roles who would like to take on a leadership role in implementing streamlined and efficient AI-based business solutions.

## ABOUT THE PROGRAM

This training program consists of 40 hours of instructor-led training and self-paced readings. The instructor lead training combines traditional teaching components with case studies, in-class discussions and hands-on activities performed on virtual labs, to enable working knowledge and experience with Business Intelligence and its related tools.

## LEARNING MODULES

The training consists of three main modules offered over 40 hours:

<b>MODULE 1</b>	<b>ARTIFICIAL INTELLIGENCE OVERVIEW</b> <ul style="list-style-type: none"><li>• AI overview, trends and advancements</li><li>• Types of AI and its applications</li></ul>	<ul style="list-style-type: none"><li>• AI research focus</li><li>• Business analytics</li></ul>
<b>MODULE 2</b>	<b>PREREQUISITES</b> <ul style="list-style-type: none"><li>• IBM Watson and how it works</li><li>• Watson technology case studies</li></ul>	<ul style="list-style-type: none"><li>• From DeepQA to Watson services</li><li>• Watson services available on IBM Cloud</li></ul>
<b>MODULE 3</b>	<b>ARTIFICIAL INTELLIGENCE ANALYST</b> <ul style="list-style-type: none"><li>• Machine learning</li><li>• IBM Watson services, IBM Watson Studio</li><li>• Watson Machine Learning, IBM Watson Knowledge Studio</li><li>• Deep learning and Neural Network Modeler</li><li>• NLP concepts, applications and case studies</li><li>• NLP Watson services</li><li>• Introduction to chatbots and chatbot components</li></ul>	<ul style="list-style-type: none"><li>• How to build a chatbot with Watson Assistant</li><li>• Computer vision components and pipeline</li><li>• How to classify images with Watson Visual Recognition</li><li>• Building intelligent solutions by integrating Watson services</li></ul>

## IBM OPEN BADGES

Artificial Intelligence Analyst:

**EXPLORER | MASTERY AWARD**



### SARA NOEMAN



Sara Noeman is a data scientist and cognitive architect at IBM Egypt - operating under the Watson and Cloud platform division. She joined the IBM Research and Development team in 2005 where she had a strong contribution in delivering successful solutions for Machine Translation, several Natural Language Processing and Information Extraction applications, like spelling correction, sentiment analysis, using machine learning approaches. Sara's work focusses on applied research leading to innovative and practical solutions for challenging real-life problems. Since 2015, Sara had been a part of the Watson Group, where she led the validation of Arabic NLP support in several Watson products and cloud services, like Watson Explorer and Watson Oncology. She was a main contributor in key projects using Watson services in the Gulf region. Her contributions included sentiment analysis, demographic and behavioural analysis for Telecommunication and Government sectors, building chatbots, and many other areas under Artificial intelligence domain.

Sara delivered several workshops about Artificial Intelligence and Big Data in Egypt, Morocco, Mauritius, UAE, and also to business partners in the Gulf region.