



# STATE-OF-THE-ART+ DATA ANALYTICS IN RISK, CONTROL AND AUDIT (ARTIFICIAL INTELLIGENCE)

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## OVERVIEW

This program is part of the Applied Data Analytics in Risk, Control and Audit™ series created and delivered by MBS Academy. The program covers state-of-the-art concepts of Data Analytics, such as Artificial Intelligence/Machine Learning, types and approaches in Machine Learning and specific Machine Learning use cases in audit/risk, that Audit and Risk professionals and teams can apply in their everyday work.

During the program participants will learn what is Machine Learning (ML) and its types: supervised and unsupervised learning. We will also look at various ML approaches, such as neural networks, decision trees, clustering and anomaly detection. Specific module is dedicated to creating ML models by non-technical professionals, such as audit and risk professionals. Participants will perform exercises, with publicly available tools, to apply ML in cybersecurity and project risk scenarios.

The program contains a significant element of gamification and practical work. Every 15-20 mins there is a gamified activity, designed to reinforce the concepts that have been covered and improve retention after completion.

The last part of the program includes exercises on how to apply Machine Learning to identify network intrusion attempts and classify project risk at project's start. All datasets and step-by-step instructions will be provided at the beginning of the program. Participants will be allowed to keep these and use them as a blueprint for real-life reviews they may be performing.

## LEARNING OUTCOMES

After the completion of this program participants will be able to:

- Understand what Machine Learning is and how it can be used in an organisation
- Appreciate the types and approaches in Machine Learning and select the most appropriate one in a given situation
- Create a Machine Learning model to be used for a specific task
- Create the necessary datasets to use in Machine Learning (ML) and train and test ML solutions
- Apply ML in cybersecurity investigations and project risk assessments

## OUTLINE

### Introduction

### Definition and Major Categories of Artificial Intelligence/ Machine Learning (AI/ML)

- Introduction and definitions – AI, ML, Deep Learning (DL)
- The relationship between AI, ML and DL
- Gamified Activity
- Major categories of AI/ML
- Gamified Activity

### Types of Artificial Intelligence/Machine Learning

- Definitions and Examples
- Gamified Exercise

### AI/ML in Risk, Control and Audit

- Use Cases for AI/ML in Risk, Control and Audit
- Real-life Case Study of AI/ML in Risk, Control and Audit
- Gamified Activity

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#### AI/ML in Risk, Control and Audit – The Methodology

- Overview
- Representing a Business Problem – “It Starts with Pen and Paper”
- Creating the model – Inputs, Outputs, Data Sources
- Gamified Activity

#### Scenario Work

- Creating an ML model for Project Risk Assessment

#### Practical Work

- Investigation Network Penetration Attempts using ML

Program Review, Q&A, Comments

#### ADMINISTRATIVE DETAILS

**TARGET AUDIENCE** LEVEL II-IV

**MEMBER'S FEE** RM450.00

**NON-MEMBER'S FEE** RM550.00

*All Fees will be subject to 6% SST*

**DATE** 16 August 2021

**TIME** 8:30 am – 1:00 pm

**DELIVERY MODE** Virtual Platform

**PROGRAMME CODE** WEB 23

**TRAINER**

**MARIO BOJLOV**

MEngSc (Research), Certified Information Systems Auditor (CISA), Graduate Diploma Applied Finance and Investment, PhD Candidate

**CPD POINTS** 5



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## ABOUT THE TRAINER

### MARIO BOJILOV

MEngSc (Research), Certified Information Systems Auditor (CISA), Graduate Diploma Applied Finance and Investment, PhD Candidate

Mario has worked in the area of Data Analytics and Business Improvement since 1994. He is also a Certified Information Systems Auditor (CISA) and a Lecturer in Accounting Information Systems; IS Control and Governance; Enterprise Resource Planning; Systems Analysis and Design.

Over the last 12 years, Mario Bojilov has taught 1,500+ university students and 350+ professionals in the areas of Finance, Digital Technologies, Risk and Audit. He has delivered industry training courses and presentations in Australia, Dubai, Abu Dhabi, Singapore, Malaysia, Brunei, Thailand and the Philippines.

Mario founded Meta Business Systems in 2004 of which he is the current Chief Executive Officer. The company is focused on business improvement, performance monitoring and data governance. A number of Government and Higher Education organisations have used solutions designed and implemented by Meta Business Systems.

Projects managed and delivered by Mario Bojilov and his team covered a variety of key business processes, such as Payroll, Finance, Procurement, Revenue Management, Treasury, HR and others. Examples of projects include, Data Warehouse/Business Intelligence (12 processes/95 reports), Financial Statements production (\$800+ revenue), Payroll monitoring (12,000 employees), Revenue verification, Fraud Detection, etc.

Mario Bojilov holds a Master of Engineering Science Degree from the University of Queensland, a Graduate Diploma of Applied Finance and Investment from the Financial Services Institute of Australasia (FINSIA) and is currently a PhD Candidate with research topic in the area of Using Artificial Intelligence for Cybercrime Detection.

Mario Bojilov has co-authored the following academic articles: Privacy and Big Data and Continuous Auditing and Continuous Monitoring in ERP Environments: Case Studies of Application Implementations. He is also a contributor to Medium - <https://medium.com/@Mario.Bojilov> and hosts a channel - <https://go.gl/ujS8ky> on YouTube.

**ENQUIRY & REGISTRATION**

1-17-07, Menara Bangkok Bank, Berjaya Central Park, 105 Jalan Ampang, 50450, Kuala Lumpur, Malaysia  
Tel: +603 2181 8008 ext 210/213/212 Fax: +603 2181 1717 Email: training@iiam.com.my Website: www.iiam.com.my

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**COURSE DETAIL**

Course Title \_\_\_\_\_

Course Code \_\_\_\_\_

Course Date(s) \_\_\_\_\_

**DELEGATE 1**

\*Full Name (as per IC) \_\_\_\_\_

\*Designation \_\_\_\_\_

\*Mobile No. \_\_\_\_\_

\*Email Address \_\_\_\_\_

 Member Non-Member

"Membership No. (only applicable for members)" \_\_\_\_\_

**DELEGATE 2**

\*Full Name (as per IC) \_\_\_\_\_

\*Designation \_\_\_\_\_

\*Mobile No. \_\_\_\_\_

\*Email Address \_\_\_\_\_

 Member Non-Member

"Membership No. (only applicable for members)" \_\_\_\_\_

**DELEGATE 3**

\*Full Name (as per IC) \_\_\_\_\_

\*Designation \_\_\_\_\_

\*Mobile No. \_\_\_\_\_

\*Email Address \_\_\_\_\_

 Member Non-Member

"Membership No. (only applicable for members)" \_\_\_\_\_

**CORPORATE DETAILS** (only applicable for corporations) Corporate Member

Corporate Membership No: \_\_\_\_\_

 Corporate Non-Member**CONTACT DETAILS**

Organisation Name \_\_\_\_\_

Mailing Address \_\_\_\_\_

Contact Person \_\_\_\_\_

Designation \_\_\_\_\_

Telephone \_\_\_\_\_

Fax \_\_\_\_\_

Email Address \_\_\_\_\_

**BILLING DETAILS** please tick if billing details are the same as contact details.

Contact Person \_\_\_\_\_

Designation \_\_\_\_\_

Billing Address \_\_\_\_\_

Telephone \_\_\_\_\_

Fax \_\_\_\_\_

Email Address \_\_\_\_\_

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## PAYMENT DETAILS

Payment Details	Member Rate (per person) for WEB-code related courses	Non-Member (per person)	6% SST	Total with SST
Fee (per pax) RM				
No. of pax				
Subtotal				

All registrations **MUST** be accompanied with full payment. Upon receipt of your registration, you are deemed to have read and understood the registration procedures and accepted the terms and conditions contained therein. (Please tick (✓) the chosen method)

**LOCAL PAYMENTS BY CHEQUE / INTERBANK GIRO**

All payments should be crossed and made payable to **THE INSTITUTE OF INTERNAL AUDITORS MALAYSIA**

Bank Details: United Overseas Bank (M) Bhd. USJ Taipan Branch, No.7, Jalan USJ 10-1, USJ Taipan Triangle, 47620 UEP Subang Jaya, Selangor  
Account No.: 165-301-514-9 Bank Swift Code: UOVBMYYL

**OVERSEAS PAYMENTS BY WIRE TRANSFER (USD only)**

Beneficiary: **THE INSTITUTE OF INTERNAL AUDITORS MALAYSIA**

Address: 1-17-07, Menara Bangkok Bank, Berjaya Central Park, 105 Jalan Ampang, 50450 Kuala Lumpur, Malaysia

Beneficiary's Bank: STANDARD CHARTERED BANK MALAYSIA BERHAD

Beneficiary's Bank Address: Level 18, Menara Standard Chartered, No.30 Jalan Sultan Ismail, 50250 Kuala Lumpur

Account No.: 312-170-024-235 Bank Swift Code: SCBLM-YK-XXXX

All wire transfer payments should include USD\$30.00 (overseas) and RM25.00 (local) for wire transfer processing fee. For GIRO, please include RM1.00 as bank charges. (Please fax the bank-in slip to +603 2181 1717 or email to training@iam.com.my)

**CREDIT CARD**

I hereby authorise **THE INSTITUTE OF INTERNAL AUDITORS MALAYSIA** to charge to my credit card. to the value of

RM \_\_\_\_\_ Card Type:  VISA  MASTER

Card Number:

Expiry Date: \_\_\_\_\_ Cardholder's Name \_\_\_\_\_

I understand that any amount drawn from my credit card will first be cleared with the credit card authorisation facility.

Signature (As per credit card) \_\_\_\_\_ Date \_\_\_\_\_

## TERMS & CONDITIONS

### FEE

- Fee is payable to "THE INSTITUTE OF INTERNAL AUDITORS MALAYSIA". Please state your name, payment advice number, phone number and Virtual Training Code number at the back of the cheque/bank-in slip. Admittance will only be permitted upon receipt of full payment
- The fee covers the soft copy course material and Certificate of Attendance.
- Full payment is to be made before the date of the course. Fee is subject to 6% SST.
- Last minute registration and admittance will only be allowed if full payment is made, subject to the availability of the seat.

### CANCELLATION

- Upon registering, participant(s) are considered successfully enrolled in the course. Should participant(s) decide to cancel/transfer their registration, a cancellation/transfer policy shall be applied as follows.
  - a) Written cancellations should be received by 14 working days before the Virtual Training date to get the refund.
  - b) Written cancellations should be received by 7 working days before the Virtual Training date to get a partial refund after deduction of 50% administrative charge. Unpaid registrations will also be liable for 50% administrative charge.
  - c) Written cancellations/no-show on the day of the Virtual Training.
    - No refund will be entertained.
    - Unpaid registrations will also be liable to full payment of the registrations fee.
    - Partial cancellation is not allowed.
  - d) You can substitute an alternate delegate(s) if you wish to avoid cancellation charges. Any differences in fees will be charged accordingly.

### RESERVATION

- The Institute reserves the right to make changes to the date, topic, speaker including cancellation if warranted by circumstances beyond its control.
- The Institute is not responsible for the action, advise or representations of the trainer / speaker.
- Registration will be on first-come, first-serve basis.
- Upon signing this form, you have deemed to have read and understand the registration term and condition and therefore have accepted the terms contained herein.
- Certificates of Attendance will be issued an "E-certificate" via email. For this purpose, it is COMPULSORY to fill in the email address clearly. Certificate will only be given to participant who attended the session in full.

### DATA PROTECTION

Personal Data is gathered in accordance with the Personal Data Protection Act 2010 (Act 709). The Institute of Internal Auditors Malaysia (IIA Malaysia) hereby inform you that your personal data will be processed, retained and used by IIA Malaysia in relation to this Virtual Training. Your personal data may also be retained and used by IIA Malaysia to market and promote other training programmes conducted by IIA Malaysia.

### DISCLAIMER

The Institute of Internal Auditors Malaysia (IIA Malaysia) reserves the right to change the speaker(s), date(s) or to cancel the Virtual Training should circumstances beyond its control arise. IIA Malaysia also reserves the right to make alternative arrangements without prior notice should it be necessary to do so. Upon signing the registration form, you are deemed to have read and accepted the terms and conditions.