

COURSE OVERVIEW IT0009 AI Digital Image Processing

Course Title AI Digital Image Processing

Course Date/Venue

Session 1: May 19-23, 2025/Glasshouse Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE Session 2: November 23-27, 2025/Tamra Meeting Room, Al Bandar Rotana Creek, Dubai UAE (30 PDHs)

Course Reference

IT0009

Course Duration/Credits Five days/3.0 CEUs/30 PDHs

Course Objectives









This practical and highly-interactive course includes real-life case studies and exercises where participants will be engaged in a series of interactive small groups and class workshops.

This course is designed to provide participants with a detailed and up-to-date overview of Artificial Intelligence Digital Image Processing. It covers the fundamentals of digital image processing, basics of images and pixels and image processing with OpenCV; the image enhancement techniques, morphological image processing and image segmentation basics: the features in image processing, edge detection and contour analysis, feature descriptors and keypoint detection; and the image classification using AI, deep learning for image processing and simple image classifier with TensorFlow/Keras.

Further, the course will also discuss the advanced image segmentation techniques, object detection using AI and convolutional neural networks (CNNs) in image processing; the image augmentation and data preprocessing and image denoising techniques; implementing image processing pipelines for AI applications; the advanced object recognition, image segmentation with deep learning and facial recognition and emotion detection; and the generative adversarial networks (GANs), superresolution and image enhancement and deep learning for image-to-image translation.



IT0009 - Page 1 of 9

IACET

IT0009-05-25|Rev.00|20 March 2025



During this interactive course, participants will learn the AI in medical image processing, AI in autonomous vehicles and surveillance, image processing in robotics and cloud-based AI image processing; the models for mobile and embedded devices and TensorFlow Lite and OpenCV for edge AI; deploying AI models as APIs using Flask/Django; and integrating AI image processing into mobile applications.

Course Objectives

Upon the successful completion of this course, each participant will be able to:-

- Apply and gain a good working knowledge on artificial intelligence digital image processing
- Discuss the fundamentals of digital image processing, basics of images and pixels and image processing with OpenCV
- Illustrate image enhancement techniques, morphological image processing and image segmentation basics
- Discuss the features in image processing and apply edge detection and contour analysis, feature descriptors and keypoint detection
- Carryout image classification using AI, deep learning for image processing and simple image classifier with TensorFlow/Keras
- Employ advanced image segmentation techniques, object detection using AI and convolutional neural networks (CNNs) in image processing
- Apply image augmentation and data preprocessing, image denoising techniques and implementing image processing pipelines for AI applications
- Carryout advanced object recognition, image segmentation with deep learning and facial recognition and emotion detection
- Explain generative adversarial networks (GANs), super-resolution and image enhancement and deep learning for image-to-image translation
- Describe AI in medical image processing, AI in autonomous vehicles and surveillance, image processing in robotics and cloud-based AI image processing
- Export models for mobile and embedded devices and discuss TensorFlow Lite and OpenCV for edge AI
- Deploy AI models as APIs using Flask/Django and Integrate AI image processing into mobile applications

Exclusive Smart Training Kit - H-STK[®]



Participants of this course will receive the exclusive "Haward Smart Training Kit" (**H-STK**[®]). The **H-STK**[®] consists of a comprehensive set of technical content which includes **electronic version** of the course materials conveniently saved in a **Tablet PC**.



IT0009 - Page 2 of 9

IT0009-05-25|Rev.00|20 March 2025





Who Should Attend

This course provides an overview of all significant aspects and considerations of artificial intelligence digital image processing for computer science, software engineers/developer, engineering students, data scientists, AI enthusiasts, image processing engineers/researchers, AI and machine learning practitioners, industry professionals and other technical staff.

Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours

Certificate Accreditations

Certificates are accredited by the following international accreditation organizations: -

• **BAC**

British Accreditation Council (BAC)

Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

ACCREDITED

The International Accreditors for Continuing Education and Training (IACET - USA)

Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units** (CEUs) in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology Middle East will award **3.0 CEUs** (Continuing Education Units) or **30 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.



IT0009 - Page 3 of 9





Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:



Dr. Pan Glou, PhD, BSc, is Senior IT. а Telecommunications, Control & Electronics Engineer with over 29 years of extensive experience in the areas of Web Programming, Gamification Techniques, Internal & External Auditing, E-Commerce Strategies, Advanced Database Management Systems, Web Design, HCI, 3D Animation, Multimedia Design, OS Architectures and Technology Network Security, Information & Application Architecture, Architectures. Portfolio

Management, Application Security, Application Integration Technologies & Strategies, Solution Architecture Patterns, Web Applications & Services, Logical Applications, Interfaces & Services, Logical & Physical Components, Mobile & Cloud Applications, Blended Learning Programs. Further, he is also well-versed in SQL Server, ASP.NET Web Core Apps, Power BI, Web Services, IIS, MS Access Databases, MS Excel & Word, HTML5, CSS3, jQuery, Javascript and Syncfusion.

During his career life, Dr. Glou has gained his practical and field experience through his various significant positions and dedication as the **IT Director**, **Head IT**, **Senior Analyst**, **Analyst**, **Senior Data Analyst**, **Head** of Development, **Project Manager**, **Senior Developer**, **Database Administrator**, **Development Team Leader**, **Team Leader**, **Supervisor**, **Senior Developer**, **Technical Consultant**, **Database Administrator**, **Developer** (Part time), **Technical Supervisor**, **IT Manager**, **Instructor**, **Professor** and **Assistant Professor** for various companies and universities such as METAdrasi, KPI Metrics Solution, Athens Doctors Association, Athens Dentists Association, Chania Bank, Medical Office, INTERFINAN Single P.C., ODEON, Business or Sector Entertainment Industry, NERIT, Supermarket AB Vasilopoulos, VIVODI Telecommunications, CITIBANK, Eurobank Cards, OASP, Ministry of Environment and Public Works, VIKELAS J. & A., Colgate Palmolive Hellas S.A.A. and Tsaoussoglou.

Dr. Glou has a PhD in Partial Query Evaluation on Very Large Databases with Error Probability from the National Technical University of Athens, and a Bachelor's degree in Mathematics from the University of Patras, Greece. Further, he is a Certified Instructor/Trainer and has delivered numerous trainings, courses, workshops, seminars and conferences internationally.

Course Fee

US\$ 5,500 per Delegate + **VAT**. This rate includes H-STK[®] (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.



IT0009 - Page 4 of 9





Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.

Training Methodology

All our Courses are including Hands-on Practical Sessions using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

30% Lectures20% Practical Workshops & Work Presentations30% Hands-on Practical Exercises & Case Studies20% Simulators (Hardware & Software) & Videos

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

|--|

Day 1	
0730 – 0800	Registration & Coffee
0800 - 0815	Welcome & Introduction
0815 - 0830	PRE-TEST
0830 - 0930	<i>Fundamentals of Digital Image Processing</i> Definition & Importance of Digital Image Processing • Applications of Image Processing in AI • Difference Between Image Processing, Computer Vision & Deep Learning • Overview of Image Processing Tools (OpenCV, PIL, NumPy)
0930 - 0945	Break
0945 – 1030	Basics of Images & Pixels Image Representation in Digital Format • Grayscale versus RGB Images • Image Resolution & Bit-Depth • Image Histograms & Their Significance
1030 - 1130	<i>Image Processing with OpenCV</i> <i>Installing OpenCV & PIL in Python</i> • <i>Reading, Displaying & Saving</i> <i>Images</i> • <i>Converting Color Images to Grayscale</i> • <i>Resizing & Cropping</i> <i>Images</i>
1130 – 1215	<i>Image Enhancement Techniques</i> Contrast Stretching & Histogram Equalization • Image Filtering (Smoothing & Sharpening) • Noise Reduction Techniques (Gaussian, Median & Bilateral Filters) • Edge Detection Using Sobel, Prewitt & Canny Operators
1215 - 1230	Break



IT0009 - Page 5 of 9





1230 – 1330	<i>Morphological Image Processing</i> Dilation & Erosion Operations • Opening & Closing Techniques for Noise Removal • Structuring Elements in Morphology • Practical Applications in AI & Computer Vision
1330 – 1420	<i>Image Segmentation Basics</i> Concept of Thresholding in Segmentation • Global versus Adaptive Thresholding • Otsu's Method for Automatic Thresholding • Region-Based Segmentation
1420 - 1430	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow
1430	Lunch & End of Day One

Day 2

Day Z	
	Understanding Features in Image Processing
0730 – 0830	Definition of Features in Images • Importance of Feature Extraction in AI •
	Types of Features: Edges, Corners, Textures • Feature Extraction versus
	Feature Engineering
	Edge Detection & Contour Analysis
0020 0020	Basics of Edge Detection (Sobel, Canny, Laplacian) • Contour Detection &
0830 - 0930	its Importance • Convex Hulls & Contour Approximation • Shape
	Detection Using Contours
0930 - 0945	Break
	Feature Descriptors & Keypoint Detection
0045 1100	Harris Corner Detection • Scale-Invariant Feature Transform (SIFT) •
0945 – 1100	Speeded-Up Robust Features (SURF) • Oriented FAST & Rotated BRIEF
	(ORB)
	Image Classification Using AI
1100 1015	Introduction to Machine Learning for Images • Dataset Preparation for
1100 – 1215	Classification Tasks • Using Traditional ML Models (SVM, Decision Trees)
	• Evaluating Classification Performance
1215 - 1230	Break
	Deep Learning for Image Processing
	Difference Between Traditional ML & Deep Learning • Basics of
1230 - 1330	Convolutional Neural Networks (CNNs) • Understanding Convolutional
	Layers & Pooling • Overview of Deep Learning Frameworks (TensorFlow,
	PyTorch)
1330 – 1420	Implementing a Simple Image Classifier with TensorFlow/Keras
	Loading Image Datasets in TensorFlow • Building a Basic CNN for Image
	Classification • Training, Testing & Evaluating the Model • Improving
	Accuracy Using Data Augmentation
1420 - 1430	Recap
	Using this Course Overview, the Instructor(s) will Brief Participants about
	the Topics that were Discussed Today and Advise Them of the Topics to be
	Discussed Tomorrow
1430	Lunch & End of Day Two



IT0009 - Page 6 of 9





Day 3

0730 - 0830 Advanced Image Segmentation Techniques Region-Based Segmentation versus Edge-Based Segmentation • Watershed Algorithm for Segmentation • GrabCut Algorithm for Foreground Extraction • Marker-Based Segmentation Using OpenCV 0830 - 0930 Object Detection Using AI Basics of Object Detection versus Image Classification • Popular Object Detection Models (YOLO, SSD, Faster R-CNN) • Labeling & Preparing Datasets for Object Detection • Training A Custom YOLO Model for Detection Tasks 0930 - 0945 Break 0945 - 1100 Convolutional Neural Networks (CNNs) in Image Processing Understanding CNN Architectures (AlexNet, VGG, Resnet) • Role of Convolutional & Pooling Layers • Implementing CNNs From Scratch in TensorFlow • Transfer Learning with Pre-Trained CNN Models 1100 - 1215 Image Augmentation & Data Preprocessing Why Data Augmentation Is Important in AI Models • Implementing Augmentation & Standardization • Improving Model Generalization with Augmentation 1215 - 1230 Break 1230 - 1330 Image Denoising Techniques Winderstanding Noise in Digital Images • Noise Removal Using Gaussian & Median Filters • Non-Local Means Denoising Algorithm • Denoising Autoencoders in Deep Learning 1330 - 1420 Implementing Image Processing Pipeline • Combining OpenCV with Deep Learning Models • Real-Time Image Processing Using OpenCV • Optimizing Image Processing Pipelines for AI Applications Building an End-to-End Image Processing Pipeline • Combining OpenCV • Optimizing Image Processing Pipelines for Deployment 1420 - 1430 Lunch & End of Day Three	Duy U	
0830 - 0930Basics of Object Detection versus Image Classification • Popular Object Detection Models (YOLO, SSD, Faster R-CNN) • Labeling & Preparing Datasets for Object Detection • Training A Custom YOLO Model for Detection Tasks0930 - 0945Break0945 - 1100Convolutional Neural Networks (CNNs) in Image Processing Understanding CNN Architectures (AlexNet, VGG, Resnet) • Role of Convolutional & Pooling Layers • Implementing CNNs From Scratch in TensorFlow • Transfer Learning with Pre-Trained CNN Models1100 - 1215Image Augmentation & Data Preprocessing Why Data Augmentation Is Important in AI Models • Implementing Augmentation # Standardization • Improving Model Generalization with Augmentation1215 - 1230Break1230 - 1330Image Denoising Techniques Understanding Noise in Digital Image • Noise Removal Using Gaussian & Median Filters • Non-Local Means Denoising Algorithm • Denoising Autoencoders in Deep Learning1330 - 1420Implementing Image Processing Pipelines for AI Applications Building an End-to-End Image Processing Pipeline • Combining OpenCV with Deep Learning Models • Real-Time Image Processing Using OpenCV • Optimizing Image Processing Pipelines for Deployment1420 - 1430Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow	0730 - 0830	Region-Based Segmentation versus Edge-Based Segmentation • Watershed Algorithm for Segmentation • GrabCut Algorithm for Foreground Extraction • Marker-Based Segmentation Using OpenCV
0945 - 1100Convolutional Neural Networks (CNNs) in Image Processing Understanding CNN Architectures (AlexNet, VGG, Resnet) • Role of Convolutional & Pooling Layers • Implementing CNNs From Scratch in TensorFlow • Transfer Learning with Pre-Trained CNN Models1100 - 1215Image Augmentation & Data Preprocessing Why Data Augmentation Is Important in AI Models • Implementing Augmentation & Standardization • Improving Model Generalization with Augmentation1215 - 1230Break1230 - 1330Image Denoising Techniques Understanding Noise in Digital Images • Noise Removal Using Gaussian & Median Filters • Non-Local Means Denoising Algorithm • Denoising Autoencoders in Deep Learning1330 - 1420Implementing Image Processing Pipelines for AI Applications Building an End-to-End Image Processing Pipeline • Combining OpenCV with Deep Learning Models • Real-Time Image Processing Using OpenCV • Optimizing Image Processing Pipelines for Deployment1420 - 1430Recap 	0830 – 0930	Basics of Object Detection versus Image Classification • Popular Object Detection Models (YOLO, SSD, Faster R-CNN) • Labeling & Preparing Datasets for Object Detection • Training A Custom YOLO Model for
0945 - 1100Understanding CNN Architectures (AlexNet, VGG, Resnet) • Role of Convolutional & Pooling Layers • Implementing CNNs From Scratch in TensorFlow • Transfer Learning with Pre-Trained CNN Models1100 - 1215Image Augmentation & Data Preprocessing Why Data Augmentation Is Important in AI Models • Implementing Augmentation Techniques (Rotation, Flipping, Cropping) • Image Normalization & Standardization • Improving Model Generalization with Augmentation1215 - 1230Break1230 - 1330Image Denoising Techniques 	0930 - 0945	Break
1100 - 1215Why Data Augmentation Is Important in AI Models • Implementing Augmentation Techniques (Rotation, Flipping, Cropping) • Image Normalization & Standardization • Improving Model Generalization with Augmentation1215 - 1230Break1230 - 1330Image Denoising Techniques Understanding Noise in Digital Images • Noise Removal Using Gaussian & Median Filters • Non-Local Means Denoising Algorithm • Denoising Autoencoders in Deep Learning1330 - 1420Implementing Image Processing Pipelines for AI Applications Building an End-to-End Image Processing Pipeline • Combining OpenCV with Deep Learning Models • Real-Time Image Processing Using OpenCV • Optimizing Image Processing Pipelines for Deployment1420 - 1430Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow	0945 - 1100	Understanding CNN Architectures (AlexNet, VGG, Resnet) • Role of Convolutional & Pooling Layers • Implementing CNNs From Scratch in
1230 - 1330Image Denoising Techniques Understanding Noise in Digital Images • Noise Removal Using Gaussian & Median Filters • Non-Local Means Denoising Algorithm • Denoising Autoencoders in Deep Learning1330 - 1420Implementing Image Processing Pipelines for AI Applications 	1100 – 1215	Why Data Augmentation Is Important in AI Models • Implementing Augmentation Techniques (Rotation, Flipping, Cropping) • Image Normalization & Standardization • Improving Model Generalization with
1230 - 1330Understanding Noise in Digital Images • Noise Removal Using Gaussian & Median Filters • Non-Local Means Denoising Algorithm • Denoising Autoencoders in Deep Learning1330 - 1420Implementing Image Processing Pipelines for AI Applications Building an End-to-End Image Processing Pipeline • Combining OpenCV with Deep Learning Models • Real-Time Image Processing Using OpenCV • Optimizing Image Processing Pipelines for Deployment1420 - 1430Recap Using this Course Overview, the Instructor(s) will Brief Participants about 	1215 - 1230	Break
1330 - 1420Building an End-to-End Image Processing Pipeline • Combining OpenCV with Deep Learning Models • Real-Time Image Processing Using OpenCV • Optimizing Image Processing Pipelines for Deployment1420 - 1430Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow	1230 - 1330	Understanding Noise in Digital Images • Noise Removal Using Gaussian & Median Filters • Non-Local Means Denoising Algorithm • Denoising
1420 - 1430Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow	1330 - 1420	Building an End-to-End Image Processing Pipeline • Combining OpenCV with Deep Learning Models • Real-Time Image Processing Using OpenCV •
1430 Lunch & End of Day Three	1420 - 1430	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be
	1430	Lunch & End of Day Three

Day 4

0730 - 0830	<i>Advanced Object Recognition</i> <i>Difference Between Object Detection & Object Recognition • Understanding</i> <i>Feature Matching Techniques • Implementing Object Tracking in OpenCV •</i> <i>Object Recognition with Deep Learning</i>
0830 – 0930	<i>Image Segmentation with Deep Learning</i> <i>Overview of Fully Convolutional Networks (FCN)</i> • <i>Understanding U-Net</i> & Mask R-CNN • <i>Implementing Image Segmentation Using TensorFlow</i> • <i>Applications of Segmentation in Healthcare & Autonomous Vehicles</i>
0930 - 0945	Break



IT0009 - Page 7 of 9 IT0009-05-25|Rev.00|20 March 2025





0945 - 1100	<i>Facial Recognition & Emotion Detection</i> Basics of Facial Recognition Technology • Using Haar Cascades & DeepFace for Face Detection • Training a CNN for Face Recognition • Implementing Emotion Detection Using Deep Learning
1100 – 1215	<i>Generative Adversarial Networks (GANs)</i> Understanding How GANs Work • Difference Between Generator & Discriminator • Implementing a Simple GAN for Image Synthesis • Applications of GANs (DeepFake, AI-Generated Artwork)
1215 – 1230	Break
1230 - 1330	Super-Resolution & Image Enhancement What Is Super-Resolution in AI? • Implementing SRGAN for Super- Resolution • Upscaling Images Using Deep Learning Models • Applications in Medical Imaging & Satellite Imagery
1330 - 1420	Deep Learning for Image-to-Image TranslationUnderstanding CycleGAN & Pix2Pix Networks • Image Style TransferUsing Deep Learning • Implementing Sketch-To-Image Conversion •Applications in Creative AI & Digital Media
1420 – 1430	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow
1430	Lunch & End of Day Four

Day 5

Day 5	
	AI in Medical Image Processing
0730 - 0830	Role of AI in Medical Imaging • Detecting Diseases Using CNN Models •
0,00 0000	Implementing AI-Based Tumor Detection • Challenges & Ethical Concerns
	in AI Medical Applications
	AI in Autonomous Vehicles & Surveillance
0830 - 0930	Role of AI in Self-Driving Cars • Object Tracking & Pedestrian Detection •
0000 0000	AI-Based Surveillance Systems for Security • Challenges of AI in Real-Time
	Vision Systems
0930 - 0945	Break
	Image Processing in Robotics
	How Robots Use Computer Vision for Navigation • Implementing Image-
0945 – 1030	Based SLAM (Simultaneous Localization & Mapping) • Object Grasping &
	Manipulation Using Vision • AI-Powered Quality Inspection in
	Manufacturing
	Cloud-Based AI Image Processing
1030 – 1130	Overview of Cloud Services for AI Image Processing • Deploying AI Models
	on AWS, Google Cloud & Azure • Using TensorFlow Serving for Scalable AI
	Applications • Real-World Case Studies on Cloud-Based AI Image Processing
1130 – 1230	Deploying AI Image Processing Models in Production
	Exporting Models for Mobile & Embedded Devices • TensorFlow Lite &
	OpenCV for Edge AI • Deploying AI Models as APIs Using Flask/Django •
	Integrating AI Image Processing into Mobile Applications
1230 - 1245	Break



IT0009-05-25|Rev.00|20 March 2025

IT0009 - Page 8 of 9

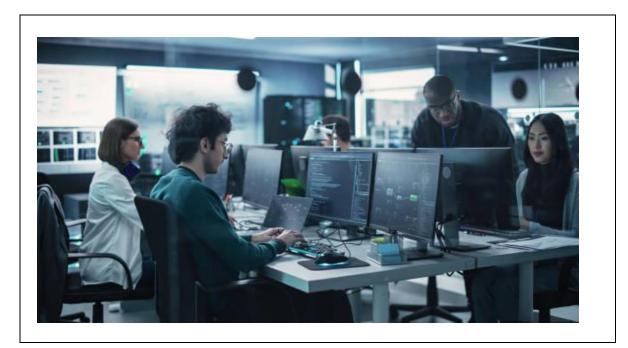




1245 – 1345	<i>Hands-on Capstone Project: Building an AI Image Processing System</i> <i>Selecting a Real-World Problem</i> • <i>Implementing Preprocessing, Feature</i> <i>Extraction & Classification</i> • <i>Training & Optimizing the Model</i> • <i>Deploying</i> & <i>Presenting Project Results</i>
1345 – 1400	<i>Course Conclusion</i> Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course
1400 - 1415	POST-TEST
1415 – 1430	Presentation of Course Certificates
1430	Lunch & End of Course

Practical Sessions

This practical and highly-interactive course includes real-life case studies and exercises:-



Course Coordinator

Mari Nakintu, Tel: +971 2 30 91 714, Email: mari1@haward.org



IT0009 - Page 9 of 9



IT0009-05-25|Rev.00|20 March 2025