Learn how to transform your business through advanced technology

FOR BANKING, INSURANCE, RETAIL, SHIPPING AND TELECOM SECTORS

30 June – 2 July, 2021 CYENS Centre of Excellence, Dimarchias Square 23, Nicosia

OVERVIEW

The content of this course combines both technical and business leadership, built on robust and deep scientific technical understanding provided by the CYENS Centre of Excellence, and the in-depth knowledge of business needs provided by PwC.

This course draws on the cutting edge academic research and the latest advancements in AI/ ML to inform business decisions, improve the efficiency and analytic capabilities, and help corporations define new strategies and processes.

KEY TAKEAWAYS

FOR EXECUTIVES AND TEAM LEADERS - THIS WILL BE COVERED IN DAY 1

Learn how to build AI capabilities for your organization (banking, insurance, retail, shipping, telecom) and gain:

- A strategic understanding of the potential and enhanced capabilities of AI/ML
- The practical aspects of incorporating AI into business processes
- · How to align your AI/ML strategy with your business strategy

FOR DATA ANALYSTS AND SOFTWARE DEVELOPERS* – THIS WILL BE COVERED IN DAYS 2 AND 3

- How to set up a ML project
- · Work on a real-life project and gain hands-on experience

*An understanding of engineering, science, mathematics or statistics will be required to understand the theory and the techniques used. This element of the course will have greatest benefit to data scientists, engineers, or analysts with some experience in programming.

TUTORS



PROF. LOIZOS MICHAEL

Leader of Artificial Intelligence & Communications / SCRAT MRG, CYENS

Associate Professor of Computational Cognition, Open University of Cyprus



DR. ZENONAS THEODOSIOU

PhD, Research Associate of BIO-SCENT MRG, CYENS



DR. CHRISTINA ORPHANIDOU

DPhil, Senior Manager, Advisory- Data and Artificial Intelligence Lab. PwC



DR. VASSILIS VASSILIADES

Leader of LEAR MRG, CYENS



DR. HARRIS PARTAOURIDES

PhD, Research Associate of BIO-SCENT MRG, CYENS **DAY 1** 8:15am - 14:00pm

Participants:

Executives, Team Leaders

Introduction to Artificial Intelligence

- Philosophy and history
- Applications
- Al use cases

Introduction to ML (functional)

- Types of ML
- ML methods
- Applications

Business Value of Al

- Linking Al with your business strategy
- Success Stories from various industries

Operationalizing Al in an organisation

From strategy to insight generation and automation

- Example Operating Models
- Teams and skills needed
- · Investment needs
- Organizational culture for ML

DAY 2

8:15am - 15:45pm

Participants:

Data Analysts, Software Developers

Introduction to AI and ML

- Artificial Intelligence
- Machine Learning
- Setting up an ML project

Data preparation

- Data collection
- Data preprocessing
- Data transformation

Model development

- Regression
- Classification
- Neural networks
- · Anomaly detection
- Clustering
- Model evaluation
- Improving performance
- Deep learning

DAY 3 8:15am - 12:15pm

Participants:

Data Analysts, Software Developers

Hands-on Examples

- Data Preparation
- Model Development
- Model Deployment

Use Cases

Project Activity

Participants will be asked to work on an industry specific project which involves the development of a ML solution/task using specific data (to be provided to the participants) and specific tools which they will need to use to arrive to a solution (Over a 4-week period).

- Problem Definition and Data Discovery Session and
- Second level support (two 1-hour online meetings)
- Presentation

COURSE HIGHLIGHTS

- Latest research translated into applicable methods
- Real world applications

- Use cases and real-life project example
- Interactive delivery

COURSE FEES

- €450 (plus VAT) for companies that will join with two participants (1 Team leader attending day 1 and 1 Technical staff attending on days 2 & 3).
 - Additional person from the same company attending day 1 €150
- Additional person from the same company attending days 2 & 3 €250
- €400 (plus VAT) for individuals wishing to attend both parts of the course

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