EU4Dual Master Class AI

General Information Session

12 November 2025

Agenda of Today's Presentation

EU4Dual Master Class AI

What is the **EU4Dual Master Class AI** study programme?

Which are the partner universities in the study programme?

How to apply and participate in the study programme?

Presentation of partner universities and workshop offerings

What is the EU4Dual Master Class AI?

EU4Dual Master Class AI

- is an international study programme for students enrolled at a university of the European Dual Studies University EU4Dual in a graduate programme (master level or equivalent) in
  - Data science
  - Machine Learning
  - Artificial intelligence
  - Related fields
- focuses on data science, machine learning, artificial intelligence and intelligent digital transformation
- brings together highly qualified master students for joint
  - training, education
  - cooperation, research
  - networking

Further details: see QR-code on the right or https://eu4dual.education/learn/masterclass-ai/

EU4Dual Master Class AI

Partner Universities of the European Dual Studies University EU4Dual

- DHBW CAS (Germany)
- ESTIA Institute of Technology (France)
- FH JOANNEUM (Austria)
- John von Neumann University (Hungary)
- Mondragon University (Spain)

EU4Dual Master Class AI

Study Programme and Workshops

- Study programme comprises master-level modules in terms of one-week (Mon-Fri) workshops
- Workshops will be offered by the EU4Dual partner universities
  - On-site lectures on partner university's campus with scientific exchange and practical interdisciplinary work on cutting-edge research in data science, machine learning and artificial intelligence
  - Per workshop preliminary online kick-off session for on-boarding
  - 5 ECTS credits for participation in workshop and successfully passing examination or assessment
  - Teaching language: English (at least B2)

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How to apply and participate in a workshop?

- Open for students enrolled at a EU4Dual partner university in a corresponding graduate programme (see slide 3)
  - Students interested in a workshop get in touch with contact person at their home university
    - Further details and contacts: see slides 7-11
  - Each student may attend up to three workshops offered by partner universities, including home university
  - Number of students participating in a workshop restricted to 25
  - Workshop takes place if at least 7 students have been registered
  - Further organizational details will be communicated to registered students by lecturers in online kick-off sessions before workshop starts

  - Tuition and fees
    - No fees at institutions hosting the workshop
    - Standard fees apply at home institution
    - Tuition fees don’t cover accommodation, travel, documents, personal expenses, health insurance or medical care

EU4Dual Master Class AI

EU4Dual Master Class AI Certificate

Upon successful completion of three workshops at three different institutions the certificate

"EU4Dual Certificate in Advanced AI Studies"

is awarded by the European Dual Studies University EU4Dual

EU4Dual Master Class AI

Schedule of Workshops 2026

- 9 Feb 2026 - 13 Feb 2026: DHBW CAS
- 7 Apr 2026 - 11 Apr 2026: ESTIA
- 13 Jul 2026 - 17 Jul 2026: Mondragon University
- 20 Jul 2026 - 24 Jul 2026: John von Neumann University
- 7 Sep 2026 - 11 Sep 2026: FH JOANNEUM

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Partner Universities and Workshops

EU4Dual Master Class AI

DHBW CAS

DHBW
Duale Hochschule
Baden-Württemberg
CAS
Center for Advanced Studies

- Coorporative State University Baden-Württemberg (DHBW)
- Located in Heilbronn, Germany
- Link: https://www.cas.dhbw.de/
- Contact **for students (enrolled at DHBW CAS)**:
  - Heiner Pfefferle (Study Program Manager, heiner.pfefferle@cas.dhbw.de)

- **Workshop on Data Science and Artificial Intelligence (W3M50022)**
  - Content
    - Current research topics in the area data science, machine learning and artificial intelligence
    - Topics
      - Transformers
      - Machine Learning on Unstructured Data
      - Multimodal Machine Learning
  - Further information:
    - https://www.cas.dhbw.de/en/master-class-ai/

Partner Universities and Workshops

EU4Dual Master Class AI

ESTIA Institute of Technology

- École supérieure des technologies industrielles avancées
- Located in Bidart, France
- Link: https://www.estia.fr/
- Contact **for students (enrolled at ESTIA)**:
  - Evgenia Ishkina (e.ishkina@estia.fr)
  - David Gomez (d.gomez@estia.fr)

- **Workshop on computer vision based on industrial use case**
  - Introduction and basic concepts
  - Image and video preprocessing techniques
  - Convolutional Neural Networks, object detection (YOLO), advanced methods
  - Model evaluation and validation in industrial contexts
  - End-to-end project work on a real dataset

Partner Universities and Workshops

EU4Dual Master Class AI

FH JOANNEUM Graz

FH | JOANNEUM
University of Applied Sciences

- Department for Applied Computer Sciences
- Located in Graz, Austria
- Link: https://www.fh-joanneum.at/
- Contact **for students (enrolled at FH JOANNEUM)**:
  - Alexandra Gößlbauer (alexandra.goesslbauer@fh-joanneum.at)

- **Workshop: Solving Practical Challenges in Data Science and AI**
  - Content
    - Students will gain a deep understanding and practical knowledge of selected topics in data science and AI, which they can use and apply in their professional environment as an IT-, data- or AI-specialist.
  - Further information: https://www.fh-joanneum.at/microcredential/solving-practical-challenges-in-data-science-and-ai/

Partner Universities and Workshops

EU4Dual Master Class AI

John von Neumann University

Neumann János Egyetem

- Located in Kecskemét, Hungary
- Link: https://john-von-neumann-university.dreamapply.com/
- Contact **for students (enrolled at JvN University)**:
  - Akos Toth (Study Program Lead, toth.akos@nje.hu)
  - EU4DUAL AI Master Class - Application form (Neumann János Egyetem Hungary) 2026 summer – Űrlap kitöltése

- **Workshops** with Topics/Courses (each 5 ECTS)
  - Odoo ERP system
  - Industrial Robotics
  - Visual Components

Partner Universities and Workshops

EU4Dual Master Class AI

Mondragon University

Mondragon Unibertsitatea Faculty of Engineering

- Located in Bilbao, Spain
- Link: https://www.mondragon.edu/en/home
- Contact **for students (enrolled at Mondragon Univ.)**:
  - Daniel Reguera (dreguera@mondragon.edu)

- **Workshop on Reinforcement Learning in Multidisciplinary Contexts**
  - Content:
    - Introduction: Basic concepts
    - Classical RL: Dynamic programming, MDP, Temporal difference, Sarsa, Q-learning
    - Deep RL: DQN, A2C, PPO
    - Hyperparameter optimisation in complex environments

Thank you.