

Aristotle University of Thessaloniki (AUTH)

Department : Computer Science

Title : MSc in Digital Media - Computational Intelligence

Link : <https://dmci.csd.auth.gr/en/>

Courses List :

- Computational Vision
<https://qa.auth.gr/en/x/class/1/600218253>
- Computational Intelligence- Statistical Learning
<https://qa.auth.gr/en/x/class/1/600218255>
- Statistical Signal Processing- Time Series
<https://qa.auth.gr/en/x/class/1/600218254>
- Biosignal Analysis- Neuroinformatics
<https://qa.auth.gr/en/x/class/1/600218256>
- Games and Artificial Intelligence
<https://qa.auth.gr/en/x/class/1/600218252>
- Complex Systems: From the society to the web
<https://qa.auth.gr/en/x/class/1/600218257>
- Bioinformatics and Digital Biology
<https://qa.auth.gr/en/x/class/1/600218251>
- Deep Learning and Multimedia Information Analysis
<https://qa.auth.gr/en/x/class/1/600224063>
- Autonomous Systems Perception
<https://qa.auth.gr/en/x/class/1/600224062>
- Signal Processing for Brain Interfaces
<https://qa.auth.gr/en/x/class/1/600224066>
- Virtual Reality
<https://qa.auth.gr/en/x/class/1/600224065>
- Language Technology
<https://qa.auth.gr/en/x/class/1/600224064>

Aristotle University of Thessaloniki (AUTH)

Department : Computer Science

Title : MSc in Artificial Intelligence

Link : <https://ai.csd.auth.gr/en/>

Courses List :

- Machine Learning
<https://qa.auth.gr/en/x/class/1/600218811>
- Semantic Web
<https://qa.auth.gr/en/x/class/1/600218814>
- Advanced Computer Vision
<https://qa.auth.gr/en/x/class/1/600218813>
- Computational Intelligence- Statistical Learning
<https://qa.auth.gr/en/x/class/1/600218815>
- Biosignal Analysis- Neuroinformatics
<https://qa.auth.gr/en/x/class/1/600218816>
- Games and Artificial Intelligence
<https://qa.auth.gr/en/x/class/1/600218812>
- Intelligent Systems Programming
<https://qa.auth.gr/en/x/class/1/600224050>
- Language Technology
<https://qa.auth.gr/en/x/class/1/600224047>
- Advanced Topics in Machine Learning
<https://qa.auth.gr/en/x/class/1/600224049>
- Intelligent Agent Systems
<https://qa.auth.gr/en/x/class/1/600224051>
- Deep Learning and Multimedia Information Analysis
<https://qa.auth.gr/en/x/class/1/600224046>
- Artificial Intelligence Philosophy
<https://qa.auth.gr/en/x/class/1/600224052>
- Autonomous Systems Perception
<https://qa.auth.gr/en/x/class/1/600224045>
- Knowledge Graphs and Ontology Engineering
<https://qa.auth.gr/en/x/class/1/600224048>

Carnegie Mellon University (AUTH)

Department : Computer Science

Title : BSc in Artificial Intelligence

Link : <https://www.cs.cmu.edu/bs-in-artificial-intelligence/>

Courses List :

- Principles of Imperative Computation
<http://www.cs.cmu.edu/~15122/syllabus.shtml>
- Integration and Approximation
https://www.math.cmu.edu/~handron/21_122/
- Mathematical Foundations for Computer Science
<https://csd.cmu.edu/course-profiles/15-151-Mathematical-Foundations-for-Computer-Science>
- Great Theoretical Ideas in Computer Science
<https://csd.cmu.edu/course-profiles/15-251-Great-Theoretical-Ideas-in-Computer-Science>
- Matrices and Linear Transformations
<https://www.math.cmu.edu/~ldietric/21-241/>
- Calculus in Three Dimensions-
https://www.math.cmu.edu/~handron/21_259/
- Concepts in AI
<https://www.coursicle.com/cmu/courses/SCS/07180/>
- AI: Representation and Problem Solving
<https://www.cs.cmu.edu/~15281/>
- Parallel and Sequential Data Structures and Algorithms
<https://www.csd.cs.cmu.edu/course-profiles/15-210-parallel-and-sequential-data-structures-and-algorithms>
- Probability Theory for Computer Science
<https://www.coursicle.com/cmu/courses/STA/36218/>
- Introduction to Machine Learning-
https://www.cs.cmu.edu/~aarti/Class/10315_Spring22/
- Introduction to Computer Systems

<https://www.cs.cmu.edu/~213/>

- Computer Vision
<http://16385.courses.cs.cmu.edu/fall2022/>
- Natural Language Processing
<http://demo.clab.cs.cmu.edu/NLP/>
- Modern Regression
<https://www.stat.cmu.edu/~larry/=stat401/>
- Neural Computation
<https://www.cnbc.cmu.edu/~tai/nc17.html>
- Autonomous Agents
<https://www.cs.cmu.edu/~15482-f19/>
- Cognitive Robotics: The Future of Robot Toys
<https://www.coursicle.com/cmu/courses/CS/15494/>
- Planning Techniques for Robotics
<https://www.cs.cmu.edu/~maxim/classes/robotplanning/>
- Mobile Robot Algorithms Laboratory
<https://www.cs.cmu.edu/~alonzo/teaching/16x62/16x62.html>
- Robot Kinematics and Dynamics
<https://www.cs.cmu.edu/~tdear/16384.html>
- Deep Reinforcement Learning & Control
https://cmudeeprl.github.io/403_website/
- Deep Learning Systems: Algorithms and Implementation
<https://www.coursicle.com/cmu/courses/MLG/10414/>
- Intermediate Deep Learning
<https://rsalakhucmu.github.io/10417-22/>
- Machine Learning for Structured Data
<http://www.cs.cmu.edu/~mgormley/courses/10418/>
- Machine Learning for Text and Graph-based Mining
<https://docplayer.net/162710375-11-741-11-641-11-441-machine-learning-for-text-mining-introduction-yiming-yang-carnegie-mellon-university.html>
- Introduction to Deep Learning
<https://deeplearning.cs.cmu.edu/S23/index.html>
- Advanced Methods for Data Analysis
<https://www.stat.cmu.edu/~cshalizi/uADA/19/>

- Search Engines
<https://boston.lti.cs.cmu.edu/classes/11-642/>
- Speech Processing
<http://www.wavlab.org/activities/2023/11692-2023s/>
- Computational Perception
<https://www.cnbc.cmu.edu/~tai/cp18.html>
- Computational Photography
<http://graphics.cs.cmu.edu/courses/15-463/>
- Design of Artificial Intelligence Products
<https://www.hcii.cmu.edu/course/design-ai-products-and-services>
- Human AI Interaction
<https://www.hcii.cmu.edu/course/human-ai-interaction>
- Designing Human Centered Software
<https://www.hcii.cmu.edu/course/designing-human-centered-software>
- Human Robot Interaction
<http://www.cs.cmu.edu/~reids/16-467/>

Massachusetts Institute of Technology (AUTH)

Department : Electrical Engineering and Computer Science

Title : BSc in Artificial Intelligence and Decision Making

Link : <https://www.eecs.mit.edu/academics/undergraduate-programs/curriculum/6-4-artificial-intelligence-and-decision-making/>

Courses List :

- Introduction to Computer Science Programming in Python
<http://student.mit.edu/catalog/search.cgi?search=6.100A>
- Introduction to Computer Science and Programming
<http://student.mit.edu/catalog/search.cgi?search=6.100L>
- Mathematics for Computer Science
<http://student.mit.edu/catalog/search.cgi?search=6.1200>

- Linear Algebra and Optimization
<http://student.mit.edu/catalog/search.cgi?search=18.C06>
- Linear Algebra
<http://student.mit.edu/catalog/search.cgi?search=18.06>
- Introduction to Probability
<http://student.mit.edu/catalog/search.cgi?search=6.3700>
- Introduction to Inference
<http://student.mit.edu/catalog/search.cgi?search=6.3800>
- Introduction to Probability and Statistics
<http://student.mit.edu/catalog/search.cgi?search=18.05>
- Fundamentals of Programming
<http://student.mit.edu/catalog/search.cgi?search=6.1010>
- Introduction to Algorithms
<http://student.mit.edu/catalog/search.cgi?search=6.1210>
- Introduction to Statistical Data Analysis
<http://student.mit.edu/catalog/search.cgi?search=6.3720>
- Introduction to Machine Learning
<http://student.mit.edu/catalog/search.cgi?search=6.3900>
- Modeling with Machine Learning: from Algorithms to Applications
<http://student.mit.edu/catalog/search.cgi?search=6.C01>
- Signal Processing
<http://student.mit.edu/catalog/search.cgi?search=6.3000>
- Representation, Inference, and Reasoning in AI
<http://student.mit.edu/catalog/search.cgi?search=6.4110>
- Computer Graphics
<http://student.mit.edu/catalog/search.cgi?search=6.4400>

- Dynamical System Modeling and Control Design
<http://student.mit.edu/catalog/search.cgi?search=6.3100>
- Optimization Methods
<http://student.mit.edu/catalog/search.cgi?search=6.7201>
- Design and Analysis of Algorithms
<http://student.mit.edu/catalog/search.cgi?search=6.1220>
- Networks
<http://student.mit.edu/catalog/search.cgi?search=6.3260>
- Foundations of Information Policy
<http://student.mit.edu/catalog/search.cgi?search=6.4590>
- Interactive Data Visualization and Society
<http://student.mit.edu/catalog/search.cgi?search=6.C35>
- AI, Decision Making, and Society
<http://student.mit.edu/catalog/search.cgi?search=6.3950>
- Computational Cognitive Science
<http://student.mit.edu/catalog/search.cgi?search=6.4120>
- Theory of Computation
<http://student.mit.edu/catalog/search.cgi?search=18.404>
- Statistics, Computation and Applications
<http://student.mit.edu/catalog/search.cgi?search=6.3730>
- Large-scale Symbolic Systems
<http://student.mit.edu/catalog/search.cgi?search=6.5151>
- Database Systems
<http://student.mit.edu/catalog/search.cgi?search=6.5831>
- Digital and Computational Photography
<http://student.mit.edu/catalog/search.cgi?search=6.8371>
- Computational Biology: Genomes, Networks, Evolution
<http://student.mit.edu/catalog/search.cgi?search=6.8701>
- Computational Systems Biology: Deep Learning in the Life Sciences
<http://student.mit.edu/catalog/search.cgi?search=6.8711>
- Robotics: Science and Systems
<http://student.mit.edu/catalog/search.cgi?search=6.4200>
- Robotic Manipulation
<http://student.mit.edu/catalog/search.cgi?search=6.4210>

- Advances in Computer Vision
<http://student.mit.edu/catalog/search.cgi?search=6.8301>
- Quantitative Methods for Natural Language Processing
<http://student.mit.edu/catalog/search.cgi?search=6.8611>

University of Technology Sydney (AUTH)

Department : Engineering and Information Technology

Title : BSc in Artificial Intelligence

Link : <https://www.uts.edu.au/study/find-a-course/bachelor-artificial-intelligence>

Courses List :

- Mathematics 1
<https://handbook.uts.edu.au/subjects/33130.html>
- Web Systems
<https://handbook.uts.edu.au/subjects/31268.html>
- Discrete Mathematics
<https://handbook.uts.edu.au/subjects/37181.html>
- Programming Fundamentals
<https://handbook.uts.edu.au/subjects/48023.html>
- Programming 1
<https://handbook.uts.edu.au/subjects/41039.html>
- Communication for IT Professionals
<https://handbook.uts.edu.au/subjects/31265.html>
- Database Fundamentals
<https://handbook.uts.edu.au/subjects/31271.html>
- Introduction to Data Analytics
<https://handbook.uts.edu.au/subjects/31250.html>

- Introduction to Information Systems
<https://handbook.uts.edu.au/subjects/31266.html>
- Mathematics 2
<https://handbook.uts.edu.au/subjects/33230.html>
- Network Fundamentals
<https://handbook.uts.edu.au/subjects/41092.html>
- Programming 2
<https://handbook.uts.edu.au/subjects/48024.html>
- Business Requirements Modelling
<https://handbook.uts.edu.au/subjects/31269.html>
- Machine Learning
<https://handbook.uts.edu.au/subjects/31005.html>
- Introduction to Artificial Intelligence
<https://handbook.uts.edu.au/subjects/41040.html>
- The Ethics of Data and AI
<https://handbook.uts.edu.au/subjects/57304.html>
- AI/Analytics Capstone Project
<https://handbook.uts.edu.au/subjects/41004.html>
- Project Management and the Professional
<https://handbook.uts.edu.au/subjects/31272.html>
- Natural Language Processing
<https://handbook.uts.edu.au/subjects/41043.html>

- Deep Learning and Convolutional Neural Network
<https://handbook.uts.edu.au/subjects/42028.html>
- Advanced Artificial Intelligence
<https://handbook.uts.edu.au/subjects/43007.html>
- Emerging Topics in Artificial Intelligence
<https://handbook.uts.edu.au/subjects/43023.html>
- Introduction to Computational Intelligence
<https://handbook.uts.edu.au/subjects/43024.html>
- AI/Analytics Capstone Project B
<https://handbook.uts.edu.au/subjects/31243.html>
- Image Processing and Pattern Recognition
<https://handbook.uts.edu.au/subjects/31256.html>
- Data Visualisation and Visual Analytics
<https://handbook.uts.edu.au/subjects/32146.html>
- Theory of Computing Science
<https://handbook.uts.edu.au/subjects/41080.html>
- Reinforcement Learning
<https://handbook.uts.edu.au/subjects/43008.html>
- Internet of Things
<https://handbook.uts.edu.au/subjects/48033.html>

Nanyang Technological University (AUTH)

Department : Computer Science and Engineering / Physical and Mathematical Sciences

Title : BSc in Data Science and Artificial Intelligence

Link : https://www.ntu.edu.sg/docs/librariesprovider118/ug/dsai/2023/ay23-24_dsai-curriculum-structure-feb-2023.pdf?sfvrsn=21f11814_3

Courses List :

- Introduction to Computational Thinking and Programming
https://www.ntu.edu.sg/docs/librariesprovider124/economics-and-data-science/sc1003-introduction-to-computational-thinking-and-programming.pdf?Status=Master&sfvrsn=a2a2f9a7_4
- Calculus
https://curr.ntu.edu.sg/obt/spms-mas/obt-output/MH1805?sfvrsn=ad1703e7_2
- Discrete Mathematics
https://www.ntu.edu.sg/docs/librariesprovider124/economics-and-data-science/mh1812-discrete-mathematics05c304b8-07bf-4754-9eb6-11d5e7dde223.pdf?Status=Master&sfvrsn=5e8198ad_4
- Inquiry and Communication in an Interdisciplinary World
https://www.ntu.edu.sg/docs/librariesprovider76/course-outlines/ug---other-courses/web-cc0001---inquiry-and-comm-in-an-interdisc-world---270122.pdf?sfvrsn=8cd0306_3
- Navigating the Digital World
<https://www.ntu.edu.sg/docs/default-source/default-document-library/inspire/cc0002-outline-ay2021-s2.pdf>
- Data Structures and Algorithms
https://www.ntu.edu.sg/docs/librariesprovider124/economics-and-data-science/sc1007-data-structures-algorithm.pdf?Status=Master&sfvrsn=8746293a_4
- Object Oriented Design and Programming
- Introduction to Data Science and Artificial Intelligence

https://www.ntu.edu.sg/docs/librariesprovider124/economics-and-data-science/sc1015-introduction-to-data-science-ai.pdf?Status=Master&sfvrsn=b6e8f226_4

- Ethics and Civics in a Multicultural World

https://www.ntu.edu.sg/docs/default-source/default-document-library/inspire/cc0003-outline-ay2021-s28631bdc2-fab3-4039-a923-723ef29f6e8e.pdf?sfvrsn=8a38e73f_3

- Healthy Living and Wellbeing

https://www.ntu.edu.sg/docs/default-source/default-document-library/inspire/cc0005-outline-ay2021-s2.pdf?sfvrsn=3c7ccb9a_3

- Algorithm Design and Analysis

https://www.ntu.edu.sg/docs/librariesprovider118/ug/cs/ay2018/year-2.pdf?sfvrsn=92da69be_2

- Software Engineering

- Probability and Introduction to Statistics

https://curr.ntu.edu.sg/obtl/spms-mas/obtl-output/MH2500?sfvrsn=ad1703e7_2

- Linear Algebra for Scientists

https://www.ntu.edu.sg/docs/librariesprovider123/obtl/mas/mh2802_obtl.pdf?sfvrsn=6f6b0698_2

- Sustainability: Society, Economy and Environment

https://www.ntu.edu.sg/docs/default-source/default-document-library/inspire/cc0006-outline-ay2021-s2.pdf?sfvrsn=89bc99a1_3

- Career and Innovative Enterprise for the Future World

https://www.ntu.edu.sg/docs/default-source/default-document-library/inspire/ml0004-outline-ay2021-s2.pdf?sfvrsn=e5d09694_8

- Introduction to Database Systems

- Artificial Intelligence
- Statistics
https://curr.ntu.edu.sg/obtl/spms-mas/obtl-output/MH3500/?sfvrsn=16988339_2
- Data Analysis with Computer
https://curr.ntu.edu.sg/obtl/spms-mas/obtl-output/MH3511?sfvrsn=ad1703e7_2
- Communication Across the Sciences
https://www.ntu.edu.sg/docs/librariesprovider76/course-outlines/ug---cos-ssm-courses/web-hw0218---comm-across-the-sci---160223---copy.pdf?sfvrsn=86b7cdba_3
- Science and Technology for Humanity
https://www.ntu.edu.sg/docs/default-source/default-document-library/inspire/cc0007-outline-ay2022.pdf?sfvrsn=1d1b4434_3
- Machine Learning
- Data Analytics and Mining
- Calculus III
https://www.ntu.edu.sg/docs/librariesprovider123/obtl/mas/mh2100_obtl.pdf?sfvrsn=9b3e53c3_2

The University of Edinburgh (AUTH)

Department : Informatics

Title : BSc in Artificial Intelligence

Link: <https://www.ed.ac.uk/studying/undergraduate/degrees/index.php?action=view&code=G700>

Courses List :

- Introduction to Linear Algebra
<http://www.drps.ed.ac.uk/22-23/dpt/cxmath08057.htm>

- Calculus and its Applications
<http://www.drps.ed.ac.uk/22-23/dpt/cxmath08058.htm>
- Informatics 1 - Introduction to Computation
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr08025.htm>
- Informatics 1 - Object Oriented Programming
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr08029.htm>
- Informatics 2 - Foundations of Data Science
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr08030.htm>
- Informatics 2 - Introduction to Algorithms and Data Structures
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr08026.htm>
- Discrete Mathematics and Probability
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr08031.htm>
- Informatics 2 - Software Engineering and Professional Practice
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr08032.htm>
- Informatics 2D - Reasoning and Agents
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr08010.htm>
- System Design Project
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr09032.htm>
- Professional Issues
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr10022.htm>
- Informatics Large Practical
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr09051.htm>

- Computational Cognitive Science
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr10054.htm>
- Foundations of Natural Language Processing
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr10078.htm>
- Introduction to Mobile Robotics
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr10085.htm>
- Machine Learning
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr10086.htm>
- Automated Reasoning
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr10087.htm>
- Speech Processing
<http://www.drps.ed.ac.uk/22-23/dpt/cxlasc10061.htm>
- Algorithms and Data Structures
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr10052.htm>
- Software Testing
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr10057.htm>
- Introduction to Theoretical Computer Science
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr10059.htm>
- Elements of Programming Languages
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr10061.htm>
- Software Design and Modelling
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr10064.htm>

- Compiling Techniques
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr10065.htm>
- Computer Security
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr10067.htm>
- Computer Communications and Networks
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr10074.htm>
- Computer Architecture and Design
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr10076.htm>
- Operating Systems
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr10079.htm>
- Introduction to Databases
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr10080.htm>
- Computing in the Classroom
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr10077.htm>
- Human-Computer Interaction
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11017.htm>
- Machine Learning and Pattern Recognition
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11130.htm>
- Bioinformatics 1
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11160.htm>
- Natural Computing
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11161.htm>

- Computational Neuroscience
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11209.htm>
- Advanced Robotics
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11213.htm>
- Algorithmic Game Theory and its Applications
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11218.htm>
- Automatic Speech Recognition
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11219.htm>
- Computer Graphics
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11220.htm>
- Machine Learning Practical
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11223.htm>
- Machine Learning Theory
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11224.htm>
- Natural Language Understanding, Generation, and Machine Translation
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11225.htm>
- Text Technologies for Data Science
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11229.htm>
- Probabilistic Modelling and Reasoning
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11235.htm>
- Extreme Computing
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11088.htm>

- Secure Programming
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11098.htm>
- Types and Semantics for Programming Languages
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11114.htm>
- Randomized Algorithms
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11201.htm>
- Advanced Database Systems
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11217.htm>
- Introduction to Modern Cryptography
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11221.htm>
- Introduction to Quantum Computing
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11222.htm>
- Parallel Programming Languages and Systems
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11226.htm>
- Quantum Cyber Security
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11227.htm>
- Security Engineering
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11228.htm>
- Blockchains and Distributed Ledgers
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11238.htm>
- Principles and Design of IoT Systems
<http://www.drps.ed.ac.uk/22-23/dpt/cxinfr11239.htm>

University College London (AUTH)

Department : Computer Science

Title : MSc in Machine Learning

Link : <https://www.ucl.ac.uk/prospective-students/graduate/taught-degrees/machine-learning-msc>

Courses List :

- Supervised Learning
<https://www.ucl.ac.uk/module-catalogue/modules/supervised-learning-COMP0078>
- MSc Machine Learning Project
<https://www.ucl.ac.uk/module-catalogue/modules/msc-machine-learning-project-COMP0091>
- Machine Learning Seminar
<https://www.ucl.ac.uk/module-catalogue/modules/machine-learning-seminar-COMP0168>
- Bayesian Deep Learning
<https://www.ucl.ac.uk/module-catalogue/modules/bayesian-deep-learning-COMP0171>
- Statistical Learning Theory
<https://www.ucl.ac.uk/module-catalogue/modules/statistical-learning-theory-COMP0175>
- Applied Deep Learning
<https://www.ucl.ac.uk/module-catalogue/modules/applied-deep-learning-COMP0197>
- Graphical Models
<https://www.ucl.ac.uk/module-catalogue/modules/graphical-models-COMP0080>

- Applied Machine Learning
<https://www.ucl.ac.uk/module-catalogue/modules/applied-machine-learning-COMP0081>
- Advanced Topics in Machine Learning
<https://www.ucl.ac.uk/module-catalogue/modules/advanced-topics-in-machine-learning-COMP0083>
- Approximate Inference and Learning in Probabilistic Models
<https://www.ucl.ac.uk/module-catalogue/modules/approximate-inference-and-learning-in-probabilistic-models-COMP0085>
- Probabilistic and Unsupervised Learning
<https://www.ucl.ac.uk/module-catalogue/modules/probabilistic-and-unsupervised-learning-COMP0086>
- Statistical Natural Language Processing
<https://www.ucl.ac.uk/module-catalogue/modules/statistical-natural-language-processing-COMP0087>
- Reinforcement Learning
<https://www.ucl.ac.uk/module-catalogue/modules/reinforcement-learning-COMP0089>
- Machine Vision
<https://www.ucl.ac.uk/module-catalogue/modules/machine-vision-COMP0137>

Polytechnic Institute of Paris (AUTH)

Department : Computer Science

Title : MSc in Artificial Intelligence and Advanced Visual Computing

Link : <https://programmes.polytechnique.edu/en/master/all-msct-programs/artificial-intelligence-advanced-visual-computing-master>

Courses List :

- Refresher Course in Artificial Intelligence (Applied Maths)
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/1382/MAP538-refresher-course-in-artificial-intelligence-applied-maths>

- Refresher Course in Artificial Intelligence (Computer Science)
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/5189/INF538-refresher-course-in-artificial-intelligence-computer-science>
- Machine and Deep learning
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/565/INF554-machine-and-deep-learning>
- Foundation of Machine Learning
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/844/MAP553-regression-theory-and-applications>
- Constraint-based Modeling and Algorithms for Decision-making
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/769/INF555-constraint-based-modeling-and-algorithms-for-decision-making>
- Image Analysis and Computer Vision
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/878/INF573-image-analysis-and-computer-vision?from=D10>
- Digital Representations and Analysis of Shapes
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/879/INF574-digital-representations-and-analysis-of-shapes?from=D1>
- Signal Processing
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/562/MAP555-signal-processing>
- Fundamentals of Strategy and Innovation
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/808/MIE555-fundamentals-of-strategy-and-innovation?from=D1>
- Introduction to Marketing and Strategy
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/686/MIE556-introduction-to-marketing-and-strategy>
- Statistics in Action
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/680/MAP566-statistics-in-action>
- Regression and classification
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/535/MAP569-machine-learning-ii>
- Advanced Machine Learning and Autonomous Agents
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/637/INF581-advanced-topics-in-artificial-intelligence>
- Real-time AI in video games: decisive & collaborative actions

<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/10392/INF584A-real-time-ai-in-video-games-decisive-collaborative-actions>

- Algorithmic Geometry: from Theory to Application
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/574/INF562-geometrie-algorithmique-de-la-theorie-aux-applications?from=P1314>
- Computer Animation
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/880/INF585-computer-animation>
- Managing sustainable innovation
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/10390/MIE565-managing-sustainable-innovation>
- Entrepreneurship for Sustainability
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/5284/MIE568-entrepreneurship-for-sustainability>
- Refreshers Course in Statistics
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/1360/MAP630-refreshers-course-in-statistics>
- Refresher Course in Computer Science
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/1361/INF630-refreshercourse-in-computer-science>
- Deep Learning
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/854/MAP-INF631-deep-learning>
- Analysis and Deep Learning on Geometric Data
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/856/INF631-data-analysis-geometry-and-topology-in-arbitrary-dimensions>
- Natural Language Processing — methods and applications
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/857/INF632-natural-language-and-speech-processing>
- Advanced 3D Graphics
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/858/INF633-advanced-3d-graphics>
- Computer Vision
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/859/INF634-computer-vision>
- Reinforcement Learning
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/881/MAP-INF641-reinforcement-learning>

- Introduction to the verification of neural networks
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/861/INF641-robot-motion-planning-verification-and-control-of-hybrid-systems>
- Navigation for Autonomous systems
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/13576/INF657G-navigation-for-autonomous-systems?from=D10>
- Socio-emotional Embodied Conversational Agents
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/862/INF642-socio-emotional-embodied-conversational-agents>
- Soft robots: Simulation, Fabrication and Control
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/863/INF643-soft-robots-simulation-fabrication-and-control>
- Virtual/Augmented Reality & 3D Interactions
<https://synapses.polytechnique.fr/catalogue/2022-2023/ue/864/INF644-virtual-augmented-reality-3d-interactions>

Polytechnic University of Catalonia (AUTH)

Department : Telecommunications Engineering

Title : MSc in Computer Vision

Link : <https://mcv.uab.cat/>

Courses List :

- Introduction to Human and Computer Vision
<https://mcv.uab.cat/m1-introduction-human-computer-vision/>
- Optimization and Inference for Computer Vision
<http://158.109.8.154/m2-optimization-and-inference-techniques-cv/>
- Machine Learning for Computer Vision
<http://158.109.8.154/m3-machine-learning-computer-vision/>
- 3D Vision
<https://mcv.uab.cat/m4-3d-vision/>
- Visual Recognition
<https://mcv.uab.cat/m5-visual-recognition/>
- Video Analysis
<https://mcv.uab.cat/m6-video-analysis/>
- Introduction to Research Dissemination

<https://mcv.uab.cat/m7-introduction-research-dissemination/>

- Research and Technology Transfer Management
<https://mcv.uab.cat/m8-research-and-technology-transfer-management/>

University of Amsterdam (AUTH)

Department : Informatics

Title : MSc in Artificial Intelligence

Link : <https://www.uva.nl/shared-content/programmas/en/masters/artificial-intelligence/artificial-intelligence.html?origin=znSrDUT%2BQ5uz6dso72fBmw>

Courses List :

- Machine Learning
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/98822>
- Deep Learning
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/99130>
- Computer Vision
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/98820>
- Natural Language Processing
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/98824>
- Information Retrieval
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/98818>
- Knowledge Representation and Reasoning
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/99126>
- Fairness, Accountability, Confidentiality and Transparency in AI
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/99121>

- Knowledge Representation and Reasoning
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/99126>
- AI for Medical Imaging
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/99131>
- Computational Dialogue Modelling
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/99156>
- Computational Social Choice
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/98366>
- Deep Learning for Natural Language Processing
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/99123>
- Information Retrieval 2
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/98819>
- Machine Learning 2
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/98823>
- Reinforcement Learning
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/99120>
- Computational Learning Theory, Logic and Knowledge Representation
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/99165>

- Information Theory
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/98312>
- Advanced Topics in Computational Semantics
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/99159>
- Automated Planning
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/99169>
- Computer Vision 2
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/98821>
- Deep Learning 2
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/99129>
- Game Theory
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/98797>
- Natural Language Processing 2
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/98825>
- Interpretability & Explainability in AI
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/99127>
- Multimedia Analytics
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/99128>
- Recommender Systems
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/99133>
- Algorithmic Game Theory
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/99163>
- Evolutionary Computing
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/102725>

- Neural Dynamics and Deep Learning
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/99191>
- Data-Driven Business Innovation and Entrepreneurship
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/99136>
- Machine Learning Theory
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/99245>
- Data Mining Techniques
<https://coursecatalogue.uva.nl/xmlpages/page/2022-2023-en/search-course/course/102727>