Facultatea de Automatică şi Calculatoare
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Universitatea
Politehnica
Timişoara

Master's Degree Program
Machine Learning

General Information

Requirements: Bachelor's degree; foundations of Computer and Information Technology
Duration: 4 semesters (3 semesters coursework + 1 semester Dissertation thesis)
ECTS credits: 120
Program language: English
More information: https://cs.upt.ro/education/master

Competencies and Knowledge Acquired

- Advanced knowledge of the main topics and problems in the field of machine learning
- Knowledge of current technologies and abilities to select and apply them in the development of machine learning projects
- Skills to critically analyze, innovate, and research
- Advanced abilities of communication, interdisciplinary cooperation, and team project management

Curriculum

The curriculum is simple and flexible. It is structured into three components:
- **Core component** – each semester, at least 2 courses must be elected out of the following:
  - Semester 1: *Fundamentals of Machine Learning, Optimization in Machine Learning, Deep Learning, Fundamentals of Computer Vision, Big Data Analytics*
  - Semester 2: *Natural Language Processing, Probabilistic Graphical Models, Reinforcement Learning, Computer Vision, Big Data Visualization*
  - Semester 3: *Robotics, Text Mining and Recommender Systems, Autonomous Driving, Advanced Computer Vision, Big Data in Health and Bioinformatics*
- **Elective component** – each semester, 1 course must be elected out of the course list of ***any Master program in the field of Computer and Information Technology***
- **Research component** – develops the research skills of the Master student over the four semesters of the program. It contains courses and activities directly related to research and Master Thesis development

Why Master of Machine Learning

- AI systems are increasingly present in all aspects of everyday life, from household items, automobiles, computer games, mobile applications, to the activities we carry out at work
- Become a highly qualified specialist in Machine Learning
- Master the most recent deep learning and big data technologies
- Specialty of high demand at national and international level
- Stand out from the crowd – in a highly competitive field, any edge counts!
- Learn new concepts in one of the most important engineering fields
- First step in a possible research career

Benefits and Opportunities

- Machine Learning jobs are among the highest paid and have the highest job satisfaction
- Up-to-date and flexible curriculum – choose your own path
- Well equipped laboratories, good infrastructure, latest technologies

Contact

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