

ARTIFICIAL INTELLIGENCE FOR TEACHERS

ROME 22-26 APRIL 2024

Participanți -CN Carol I

Diaconu Raluca - prof. limba română

Băluțoiu Elena - prof. chimie

Mic Dănuț- prof. matematică

Popescu Luminița- prof.matematică

Stanca Monica - prof. matematică

Ion Daniel Alexandru - prof. matematică

Leotescu Daniel - prof. limba engleză

Băluțoiu Valentin- prof. istorie

Jenaru Răzvan - prof. fizică

Florian Gabriel - prof. fizică

Florian Aurelia - prof. fizică



EDUCATIONAL CENTRE

It is a non-profit association headquartered in Rome, Italy, at no. 26 Via Ferruccio Zambonini 26, and dedicated to promoting the social, cultural and professional integration of the individual, as well as the adaptability and competitiveness of both companies and workers, doing so through activities and projects of training and orientation.

The Association pursues the goals established under the Lisbon Strategy of the European Union, seeking to support employment, economic development and social cohesion in a world where knowledge and skills constitute the keys to success.

Drawing on the services of a network of professionals and experts in every sector, Infol proposes training courses, together with programs for the updating and specialization of skills, both short-term and long-term, in order to supply the skills and knowledge needed for any position, company activity or professional endeavour.

Infol organizes programs of training for both individuals and companies, including initiatives supported by public funding or held under public tenders. The Association offers services of orientation and guidance to families, immigrants and workers already employed and/or seeking employment, operating counseling points that address a wide range of needs.



www.infoleducation.com

Confirmed courses 2023/2024

- English course for teachers
- Supporting gifted and talented students in classroom
- Augmented and Virtual Reality Technologies in Teaching
- Student-Centered Learning and Flipped Classroom
- Outdoor Education: new ideas and innovative teaching methods
- Innovative teaching techniques for sport teachers/instructors
- Green education: new ideas for teaching environmental sustainability and respect for nature
- **Artificial Intelligence for teachers**
- The Montessori method
- School bullying Prevention
- Educative robotic and coding
- Inclusive teaching methods: management of multicultural groups
- Art: Creative and innovative teaching methods
- Teacher Training on STEM Education
- Conflict mediation: innovative approaches to teaching
- Coaching, leadership and motivation
- Special needs and learning disabilities
- Emotional Intelligence and coaching skills
- 21st Century Education and digital skills
- Ict in Education: digital tools for teachers
- Career consultancy in schools
- Preventing early school leaving
- Educational psychology for teachers
- Job Seeking Strategies at Vocational School
- Entrepreneurship education in school
- Social media tools for creative teachers
- Schools' first aid training

OBJECTIVE

1. **Înțelegerea inteligenței artificiale:** profesorii ar trebui să fie capabili să explice conceptele de bază ale inteligenței artificiale, inclusiv tipuri precum învățarea automată și rețelele neuronale.
2. **Integrarea AI în predare:** Educatorii ar trebui să dobândească capacitatea de a identifica oportunitățile de integrare a AI în activitățile lor de predare.
3. **Conștientizarea etică:** Profesorii ar trebui să fie conștienți de problemele etice legate de utilizarea IA în clasă și ar trebui să poată aplica liniile directoare etice.
4. **Dezvoltarea proiectelor AI:** Profesorii ar trebui să fie capabili să creeze proiecte educaționale folosind instrumente bazate pe AI și să evalueze performanța elevilor.
5. **Viziunea viitorului:** Educatorii ar trebui să fie informați despre tendințele viitoare în domeniul AI educațional și să înțeleagă cum AI poate sprijini învățarea pe tot parcursul vieții

Artificial intelligence for teachers
ROME 22-26 April 2024

NUMBER OF EVENTS	TIME	PLACE	ACTIVITY	TRAINER
22/04/2024	10.00-10.30	Roma, via Giorgio Scalia 10/B	Official welcome Introduction	Francesco Cuccari
	10.30-13.30		1° SESSION	Eleonora Tulumello
23/04/2024	10.00-13.00	Roma, via Giorgio Scalia 10/B	2° SESSION	Davide de Martino
24/04/2024	10.00-13.00	Roma, via Giorgio Scalia 10/B	3° SESSION	Eleonora Tulumello
	15.00 - 18.00		4° SESSION	Davide de Martino
25/04/2024	Italian National Day			
26/04/2024	10.00-13.00	Roma, via Giorgio Scalia 10/B	5° SESSION	Eleonora Tulumello
	15.00	Meeting with european teachers Monitoring and evaluation Certificate of Attendance Ceremony		Francesco Cuccari Infol staff



Challenges in traditional education

Traditional education faces several challenges that have prompted calls for reform and discussion for new regulation at all levels.

Rigid structure: school systems can be very rigid, due to the necessity to standardize and measure school curriculums, tests and students' progresses.

Lack of Individualization: the flip of the coin of standardization is the difficulty to adapt school curriculums and tests to some special necessities that students may have.

How to apply Artificial Intelligence in teaching

Making learning more engaging and enjoyable through Gamification (ex. Minecraft Education), AI driven simulations (ex. Metaverse educational environments), more engaging online lessons (ex. with interactive quiz tools).



Sustainability: Artificial Intelligence machines use a large amount of energy just to do the “simplest” actions, emitting a very relevant amount of carbon

Copyright infringement: many datasets used to train AIs are collected without the permission of content creators and without paying for their work. Generative AI machines also uses this kind of datasets to create new artwork, but still based on human artworks.

Job displacement: Certain jobs may become obsolete due to AI. There is a need for reskilling and upskilling programs. Collaboration between governments, educational institutions, and industries is essential to implement those programs.



Potential bias and discrimination: low quality datas train low quality machines, that give low quality outputs (garbage in, garbage out).

Privacy: Artificial Intelligence requires access to large amounts of datas for training, so Personally Identifying Information (PII) can be used to train machines without owners permission.



Transparency: many AI algorithms operate as black boxes, meaning that experts who work on them can't specify exactly the terms of their algorithms, so customers can't exactly know many of their parameters.

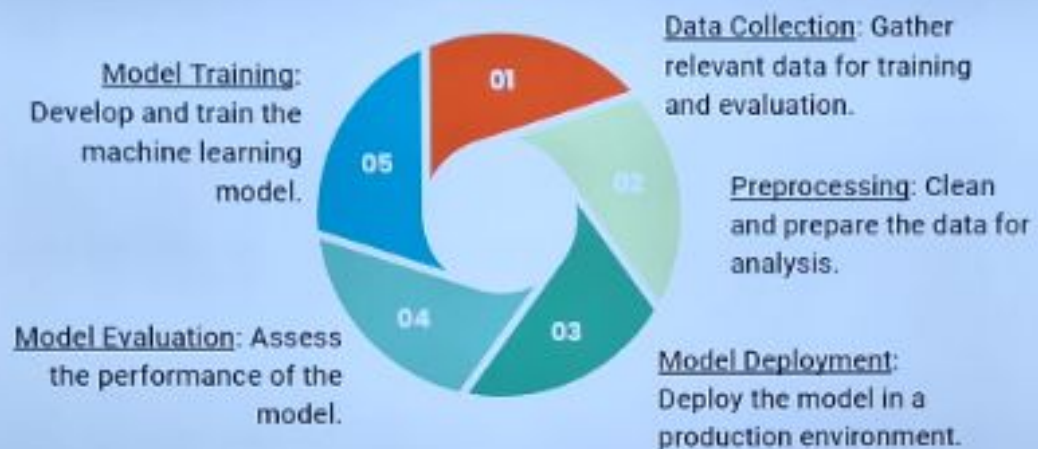


We can use Chatbots and Virtual Assistants to help us do many things, like administrative assisted tasks (ex. with email for parents), or increase the overall “performance” of teaching and learning, helping save time to dedicate directly to students.



Continuous professional development is another aspect that AI can help teachers do, offering personalized professional development opportunities for educators, helping them stay updated with the latest teaching methods and technologies.

Machine Learning Process



Types of Machine Learning

Supervised Learning: The model is trained on labeled data with input-output pairs.

Unsupervised Learning: The model learns patterns and structures in unlabeled data.

Reinforcement Learning: The model learns from its own actions and rewards in a dynamic environment.

Types of Machine Learning

Supervised Learning



Unsupervised Learning



Reinforcement Learning





ARTIFICIAL INTELLIGENCE FOR TEACHERS
ERASMUS 2022-1-RO01-KA121-SCH-000061654

CONCENTRATION OF SOLUTIONS

RALUCA DIACONU

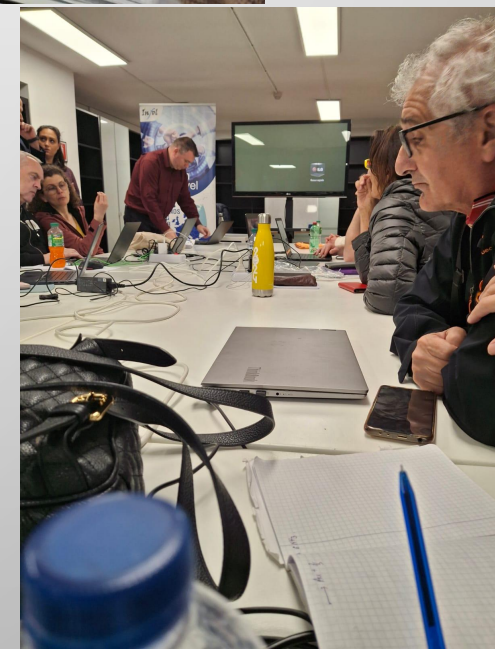
ELENA BALUTOIU

VALENTIN BALUTOIU

DANIEL LEOTESCU

RAZVAN JENARU

C:\Users\Prof\Desktop\CONCENTRATION OF SOLUTIONS (2).odp





ARTIFICIAL INTELLIGENCE FOR TEACHERS
ERASMUS 2022-1-RO01-KA121-SCH-000061654

MOMENTUL ABSOLVIRII







ARTIFICIAL INTELLIGENCE FOR TEACHERS

ERASMUS 2022-1-RO01-KA121-SCH-000061654





ARTIFICIAL INTELLIGENCE FOR TEACHERS
ERASMUS 2022-1-RO01-KA121-SCH-000061654

Vă mulțumesc pentru atenție!

Elena Băluțoiu
Raluca Diaconu
Valentin Băluțoiu