

**Scuola Galileiana di Studi Superiori**

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**PIANO NAZIONALE DI RIPRESA E RESILIENZA (PNRR)**

Missione 4: "Istruzione e ricerca"  
Componente 1: "Potenziamento dell'offerta dei servizi di istruzione: dagli asili nido alle università"  
Investimento 3.4, "Didattica e competenze universitarie avanzate" - sub-investimento "Rafforzamento delle scuole universitarie superiori"

# *Introduction to Machine Learning and Artificial Intelligence: Methods and Applications*

The course consists in three meetings:

## **1. A Brief Tutorial on Artificial Intelligence and Machine Learning**

*In the first meeting, we will introduce the basic concepts and tools of Machine Learning and Artificial Intelligence. We will also discuss some examples, looking at applications of in various areas.*



**04/03- 10.00-13.00**

*Aula Magna della Scuola Galileiana (via Venezia 20, Padova)*

## **2. Fundamental Methods and Modern Techniques**

*In the second meeting, we will discuss more in depth some of the key methods introduced in the first meeting. We will also explore some of the more recent techniques in Artificial Intelligence and Machine Learning, and the challenges they pose. Part of this meeting will be based on Flipped Classroom, based on the work done by the students between the first and second meeting.*



**18/03- 10.00-14.00**

*Aula Magna della Scuola Galileiana (via Venezia 20, Padova)*

## **3. How can we apply ML and AI to our projects?**

*In the third meeting, we will focus on how the students can apply Machine Learning and Artificial Intelligence to their own research field. The meeting will include presentations from the students, and the discussion of the main challenges and potentials they identify.*



**25/03- 10.00-13.00**

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