

June, 27 2024

# Spoke 6 Mentorship Program

Facoltà di Ingegneria (La Nave)

Aula seminari "Magenta", Piano D  
Edificio didattica principale

Via Angelo Ferrata, 5  
Pavia, Italy

## Principles of Artificial Intelligence, Machine Learning and Deep Learning with examples of applications in the context of nutrition

### Aim

To provide a quick overview of artificial intelligence, machine learning and deep learning, with focus on commonly used algorithms and examples of applications in the context of the topics of interest for the OnFoods project.

### Objectives

- Explain the main concepts at the basis of artificial intelligence, with special emphasis on machine learning and deep learning
- Provide an overview of some of the main procedures and algorithms, demonstrating their high versatility
- Provide some examples of applications in the context of nutrition

### Program

10:30—11:00

Guests gathering and opening

11:00—13:00

Morning session

- Quick recap of the past AI courses
- Principles of Artificial Intelligence, main algorithms and state of the art
- Practical examples of machine learning algorithms for clustering and classification
- Discussion

13:00—14:15

Lunch break

14:15—16:15

Afternoon session

- Presentation of the Orange Data Mining tool
- Implementation of machine learning algorithms in practice: guided hands-on tutorial using Orange (Your personal computer is required to properly follow the guided activity)

16:15—16:30

Closing



Meeting  
Address



To attend  
in presence



To attend  
online

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SPOKE 06

## Tackling malnutrition

To restore resilience and defeat malnutrition