

[S23] Applied Machine Learning

Innopolis University
BEKKOUCH Imad Eddine Ibrahim

Self Introduction

Education

- Bachelor's in CS Algeria
- Master's in DS Innopolis
- PhD in AI Sorbonne

Experience

- PepsiCo
- Provectus
- Innopolis Research labs





Research Interests

1 Computer Vision

2 Domain Adaptation

Knowledge Graphs



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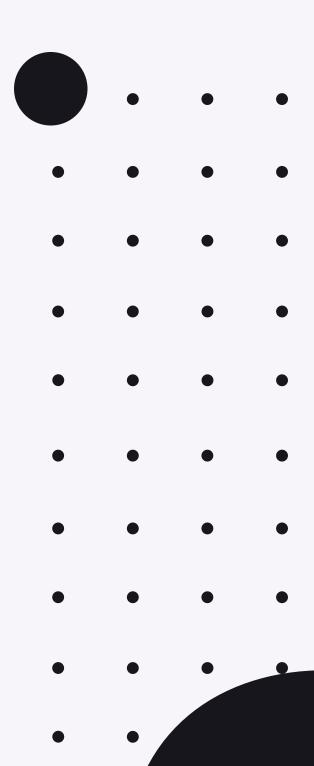
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Theory

- Linear Algebra
- Calculus
- Statistics
- Machine learning

Practice

- Python
- Algorithms and DS
- numpy/pandas
- Sklearn



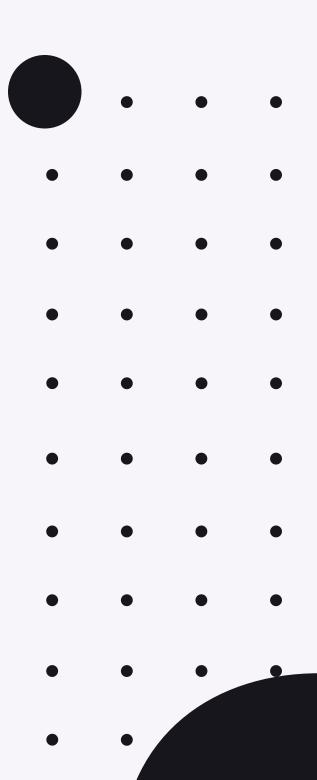
Prerequistes

Projects 50%

- Homeworks 25
- Project 25

Quizzes 50%

- MCQ1 25
- MCQ2 25



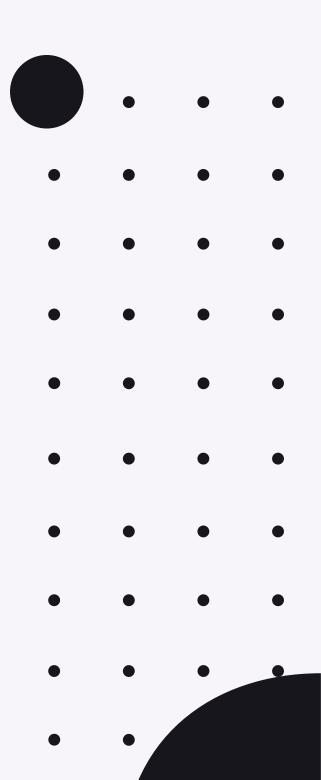
Grading Criteria

Lectures

- Online Zoom
- 2 MCQs

Labs

- Online Zoom
- Porject based evaluation



Course Structure



2 CNNs
Transfer learning

Object detection
Yolo, RCNN, ViT

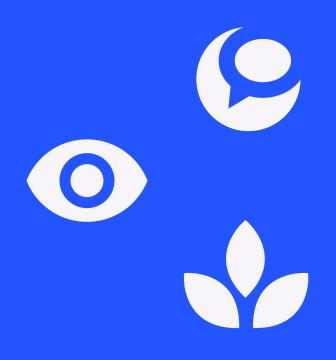
Advanced CV

Diffusion, tracking

Outline

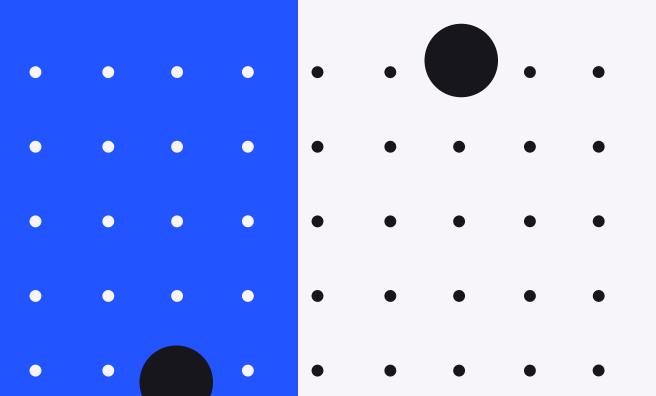
The goal of the course is:

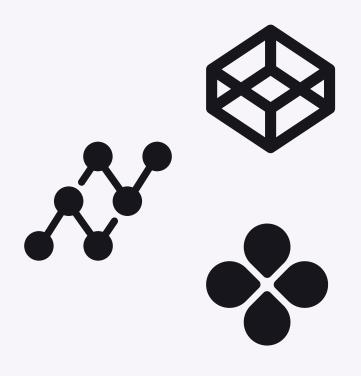
- 1. Develop a good understanding of how Computer vision models learn.
- 2. Evaluate the strengths and weaknesses of the many CV models.
- 3. Design and implement CV models for object detection, classification, instance segmentation, and generation in python.

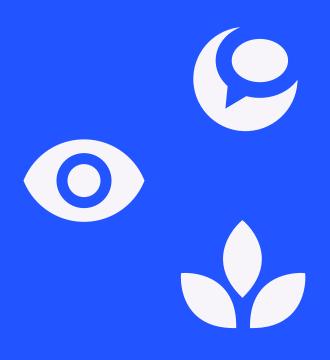


Let's get to know each other

Let's get started







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