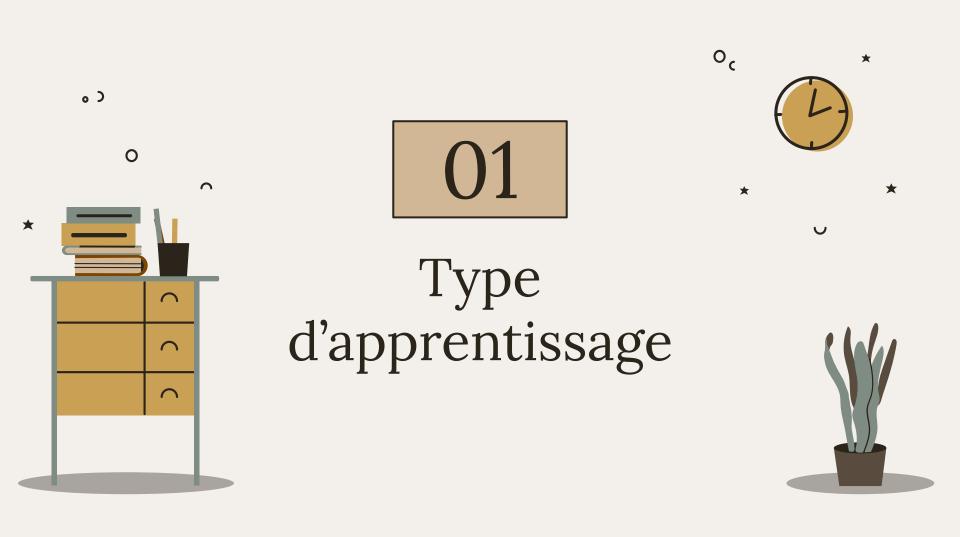
Le sujet d'étude des professions de l'Intelligence Artificielle

Nathan Hoche





1. <u>Type d'apprentissage</u>	Présentation des différents types d'apprentissage			
2. <u>Entrainement</u>	Présentation des données en fonction des types d'apprentissage			
3. <u>Création d'un set de donnée</u>	Présentation des techniques de création de données			
4. <u>Apprentissage</u>	Guide pour apprendre la gestion de donnée			





Reinforcement Unsupervised Supervised

Supervised Reinforcement Unsupervised Les données Uniquement les Aucune données données les réponses

Unsupervised Supervised Reinforcement Si on ne connaît Pour trouver la Si on connaît solution dans un pas les les réponses environnement réponses

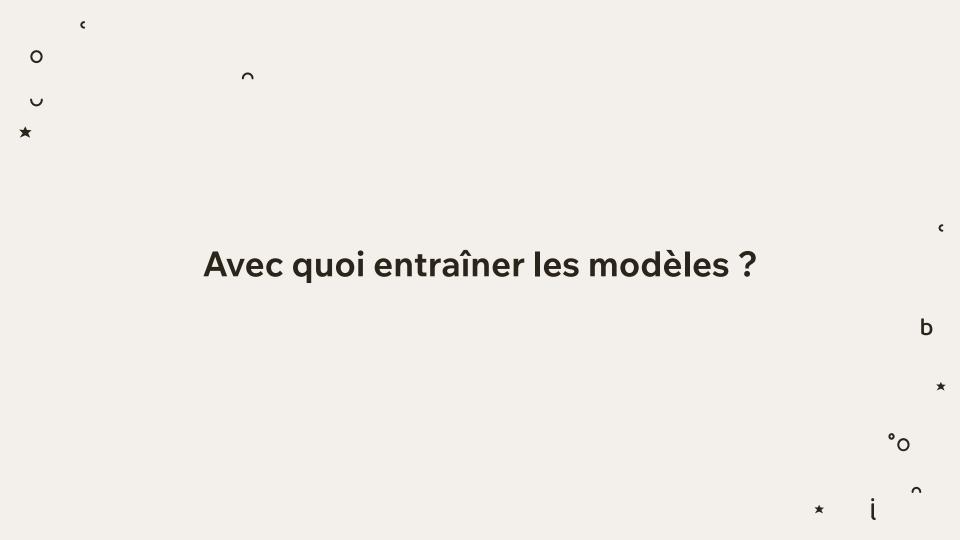


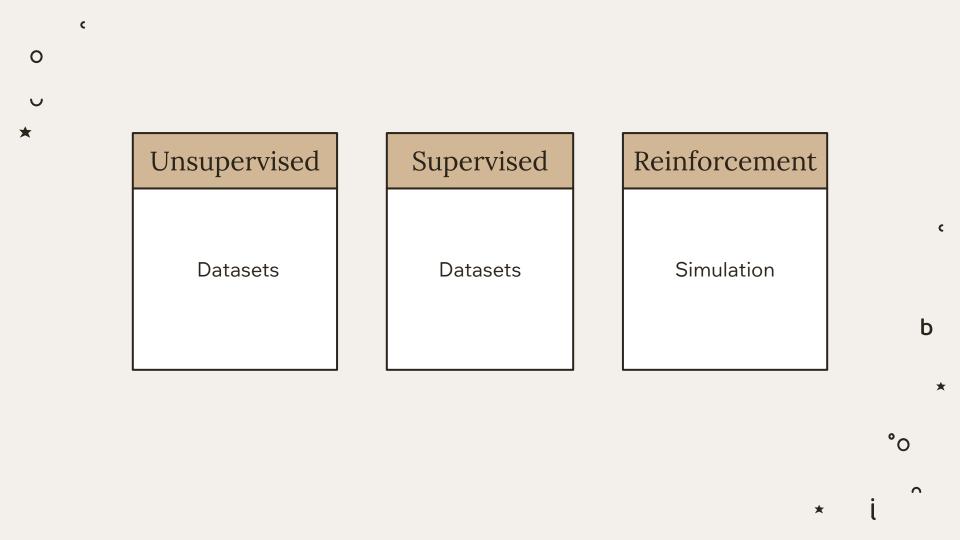












∞ Id == SPL-SPW-PTL-PTW(CM)	# SepalLengthCm = Length of the sepal (in cm)	# SepalWidthCm = Width of the sepal (in cm)	# PetalLengthCm = Length of the petal (in cm)	# PetalWidthCm = Width of the petal (in cm)	▲ Species ☐ Species name
1 150	4.3 7.9	2 4.4	1 6.9	0.1 2.5	3 unique values
1	5.1	3.5	1.4	0.2	Iris-setosa
2	4.9	3.0	1.4	0.2	Iris-setosa
3	4.7	3.2	1.3	0.2	Iris-setosa
4	4.6	3.1	1.5	0.2	Iris-setosa
5	5.0	3.6	1.4	0.2	Iris-setosa
6	5.4	3.9	1.7	0.4	Iris-setosa
7	4.6	3.4	1.4	0.3	Iris-setosa
8	5.0	3.4	1.5	0.2	Iris-setosa
9	4.4	2.9	1.4	0.2	Iris-setosa
10	4.9	3.1	1.5	0.1	Iris-setosa
11	5.4	3.7	1.5	0.2	Iris-setosa
12	4.8	3.4	1.6	0.2	Iris-setosa
13	4.8	3.0	1.4	0.1	Iris-setosa
14	4.3	3.0	1.1	0.1	Iris-setosa
15	5.8	4.0	1.2	0.2	Iris-setosa
16	5.7	4.4	1.5	0.4	Iris-setosa
17	5.4	3.9	1.3	0.4	Iris-setosa
18	5.1	3.5	1.4	0.3	Iris-setosa
19	5.7	3.8	1.7	0.3	Iris-setosa
20	5.1	3.8	1.5	0.3	Iris-setosa

Dataset



Contient:

- Des colonnes de données
- Une colonne classe

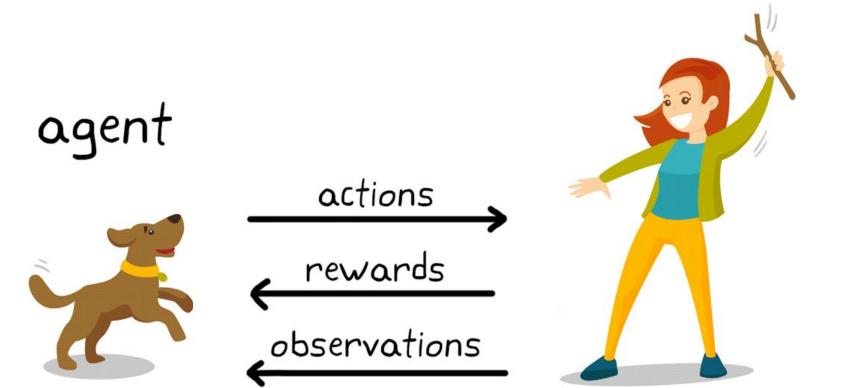
Simulation

- https://www.youtube.com/watch?v=L 4BPiLBF4E
- https://openai.com/research/roboschool

0

- https://youtu.be/Dw3BZ6O 8LY?feature=shared
- https://youtu.be/DcYLT37ImBY?feature=shared

environment









Manuel

Pour les données nécessitant une vérification

Automatiser

Pour les données présentent en ligne

t

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Datamining: Web Scraping

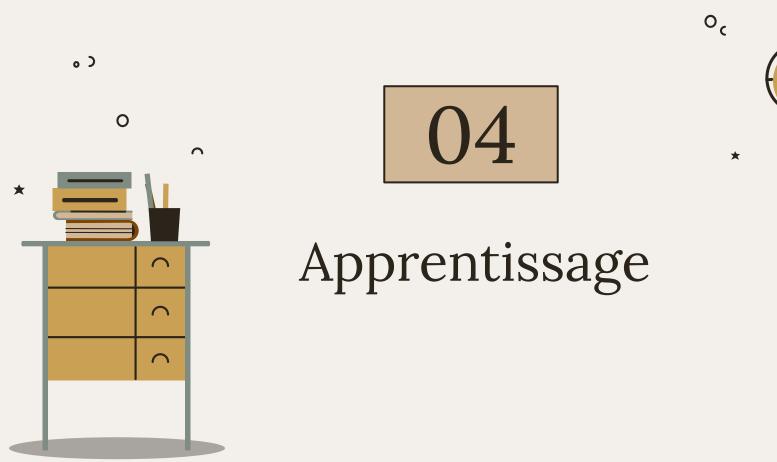
Extraction des données présentes sur les sites web

- https://www.nfl.com/stats/player-stats/
- https://ledenicheur.fr/product.php?p=5683804
- https://www.google.com/finance/quote/GOOG:NASDAQ?sa =X&sqi=2&ved=2ahUKEwioop6Ch_yDAxXYU6QEHQAeDt4Q 3ecFeqQlbBAf
- https://garden.org/plants/

Datamining: API

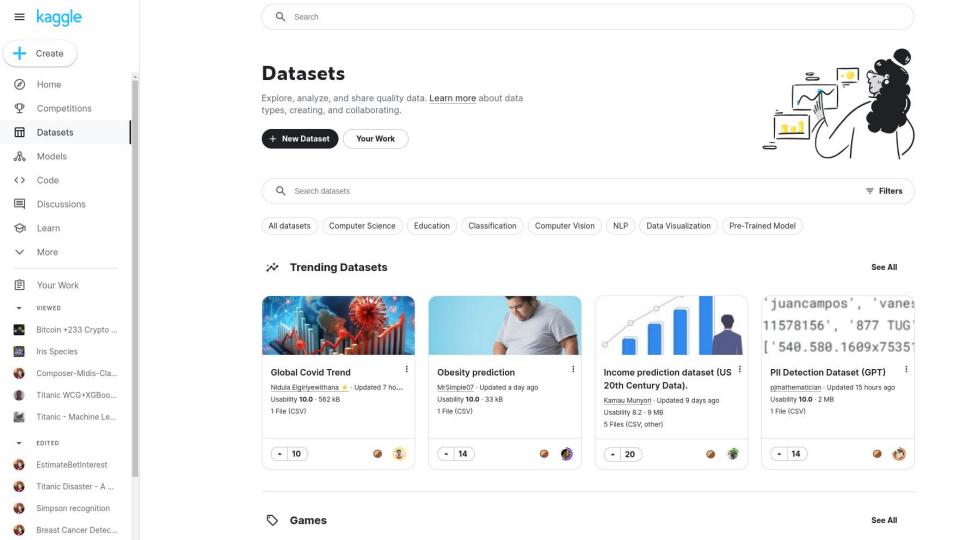
Récupération des informations via des APIs

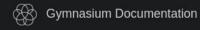
- https://developer.twitter.com/en/docs/twitter-api
- https://www.reddit.com/dev/api/
- https://developers.google.com/youtube/v3
- https://docs.genius.com/#/getting-started-h1













INTRODUCTION

Basic Usage

Compatibility with Gym

v21 to v26 Migration Guide

API

Env

Register and Make

Spaces

Wrappers

Vector Utils

Experimental

ENVIRONMENTS

Classic Control

Box2D

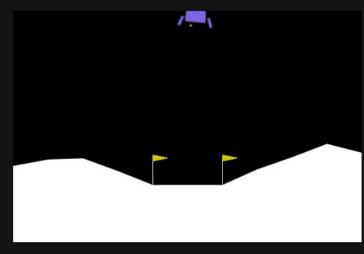
Atari

Toy Text MuJoCo



An API standard for reinforcement learning with a diverse collection of reference environments

00



Gymnasium is a maintained fork of OpenAl's Gym library. The Gymnasium interface is simple, pythonic, and capable of representing general RL problems, and has a <u>compatibility wrapper</u> for old Gym environments:

pandas

pandas is a fast, powerful, flexible and easy to use open source data analysis and manipulation tool, built on top of the Python programming language.

Install pandas now!

Getting started

- Install pandas
- · Getting started

Documentation

- User guide
- API reference
- · Contributing to pandas
- · Release notes

Community

- About pandas
- Ask a question
- Ecosystem

With the support of:











Latest version: 2.2.0

- What's new in 2.2.0
- · Release date: Jan 20, 2024
- Documentation (web)
- Download source code

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Previous versions

- 2.1.4 (Dec 08, 2023) changelog | docs | code
- · 2.0.3 (Jun 28, 2023) changelog | docs | code
- 1.5.3 (Jan 19, 2023) changelog | docs | code
- 1.4.4 (Aug 31, 2022) changelog | docs | code



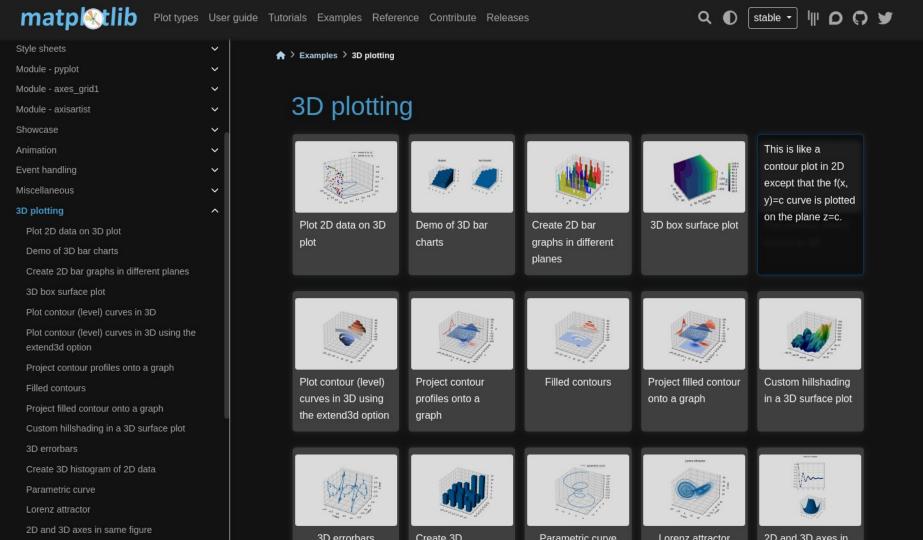












Conclusion

- Type d'apprentissage: Reinforcement, Supervised et Unsupervised
- 2. Type de donnée : Dataset et Simulation
- 3. Pour faire son dataset: API ou Web Scraping



Avez-vous des questions?

