



1SC4893 – E-Commerce

Instructors: Wassila Ouerdane

Department: DOMINANTE - INFORMATIQUE ET NUMÉRIQUE

Language of instruction: FRANCAIS

Campus: CAMPUS DE PARIS - SACLAY

Workload (HEE): 40

On-site hours (HPE): 27,00

Description

- The objective of 'E-commerce' teaching is to put into practice one of the facets of information retrieval, namely "personalization" to respond to the problem of "information overload". The idea is to implement a platform which aims to provide relevant information to a user on the basis of his profile and preferences. More specifically, we will discuss several technical topics:
- A web development part in Serverless AWS in JS & Vue during which we will implement an authentication, a search bar and a REST API
- A Machine Learning part to establish the recommendation. This part is based on the notions and concepts seen during the recommendation course (course Data @ Web: web Data Intelligence: Creation of values around web data).

Quarter number

ST4

Prerequisites (in terms of CS courses)

- Have taken the course of Data @ Web: web Data Intelligence: Creation of values around the data of the Web and the course of Machine Learning.

Class components (lecture, labs, etc.)

The work will be done in groups of 2/3 people to offer on the one hand the best interface and on the other hand an implementation (a demonstration) of the platform for recommendation, on the basis of data chosen by the group.

Grading

The assessment includes:



1. a control of the presence and the implication of the different students in the group work.
2. a presentation defense of the final solution in front of a jury made up of our participants from the industrial partner.

Resources

- Teaching Team : Wassila Ouerdane and several participants from the industry partner
- Different tools and software :
 - For web development: Serveless AWS in JS & Vue, REST API
 - Git and code sharing tools
 - Group messaging : Slack.

Learning outcomes covered on the course

- At the end, the student will be able to :
- Apply and use a set of knowledge and methods of implementing web platforms and information processing.
- Take a step back on information retrieval domain in general and recommendation process in particular.
- Work as a team in an autonomous way towards a common goal.
- know how to defend a proposal to real problem in a rigorous and justified manner in from of a jury of professionals.

Description of the skills acquired at the end of the course

- C1.1 : étudier un problème dans sa globalité, la situation dans son ensemble.
- C1.4: Spécifier, concevoir, réaliser et valider tout ou partie d'un système complexe
- C1.5: mobiliser un large socle scientifique et technique dans le cadre d'une approche transdisciplinaire.
- C3.1: Etre proactif, prendre des initiatives, s'impliquer
- C3.6: Evaluer l'efficacité, la faisabilité et la robustesse des solutions proposées.
- C8.1: Travailler en équipe/en collaboration



INTENSIVE COURSES