

École Nationale Supérieure d’Informatique et d’Analyse des Systèmes – RABAT

IMPLEMENTATION OF A HYBRID RECOMMENDATION SYSTEM FOR HEALTH APPLICATIONS USING NLP

**Performed by :**

EL OUARTI Mouad  
FIALI Mouad

**Supervised by :**

SABIRI BIHI

**Année scolaire :** 2022/2023

General context of the project

# Project brief

# Project objectives and success criteria

## Objectives

* To design and develop a hybrid recommendation system for health applications that combines collaborative filtering and content-based filtering.
* To implement natural language processing (NLP) techniques to analyze textual data from health applications and extract relevant features for the recommendation system.
* To evaluate the performance of the recommendation system in terms of accuracy, precision, recall, and F1-score.
* To improve the recommendation system's performance by incorporating user feedback and updating the recommendation algorithm.
* To demonstrate the effectiveness of the recommendation system in improving user engagement and satisfaction with health applications.

## Success criteria

* The recommendation system should have a high accuracy rate of at least 80%.
* The recommendation system should provide relevant recommendations to users based on their preferences and needs.
* The recommendation system should be able to handle a large amount of data from health applications and provide real-time recommendations.
* The recommendation system should be easy to use and understand for users, with clear explanations for the recommendations provided.
* The recommendation system should improve user engagement and satisfaction with health applications, as demonstrated by user feedback and usage statistics.