



Subject: Internship Proposal

<i>ID</i>	PTI_La Rosa Francesco_22/09/2025 9.11.24
<i>Data</i>	22/09/2025 9.11.24

Project Supervisor

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Project Co-Supervisor

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Project details

<i>Title</i>	Recommendation Systems Based on Public Datasets and Large Language Models		
<i>Detailed description:</i> This project focuses on the design and development of recommendation systems leveraging public datasets and integrating Large Language Models (LLMs). The aim is to explore hybrid methodologies that combine traditional recommendation techniques (collaborative filtering, content-based, hybrid) with the capabilities of LLMs, which can interpret and enrich the user’s information context. The planned activities include: analysis of public datasets (e.g., MovieLens, Amazon Reviews, Last.fm), implementation of classical and deep learning–based recommendation algorithms, integration of LLMs to generate explanations, personalized recommendations, and evaluate suggestion quality, experimentation with evaluation metrics (precision, recall, NDCG, MRR). The project provides practical skills in recommendation systems, real-world dataset usage, and integration with next-generation language models.			
<i>Duration (month – max 12)</i>	12		
<i>Duration (hours)</i>	undefined		
<i>Open positions</i>	3		



Internship Skills

Technical requirements: Possesses basic knowledge of C and Python programming languages, algorithms, and data structures.

Other skills

Willingness and aptitude for teamwork. Strong commitment and availability to attend the facilities of the FCRLab.