

Project : Active Learning

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The Context

Most AI algorithms designed to improve user experience are static and cease to learn once deployed.

Whereas their performance can be significantly improved by allowing them to learn from user interactions actively



The Goal

This project aims to establish a connection between an AI model and a real-time data stream from user interactions on employment sites to recurrently re-train it for continuous improvement.

This project will be divided into three major components:

- Data collection: User behavior information is collected through a pixel tracker that captures clicks, viewing time on job postings, submitting applications, etc.
- Data storage: using an appropriate infrastructure to handle the massive amount of data collected. A real case study will be used to pilot the project <https://matching.samsic-emploi.fr/>
- Machine Learning pipeline: Build the pipeline that enables model parameter fine-tuning, validation, and score updating.

Keywords : *Data Engineering, Big Data, Deep Learning, NLP, Continuous Learning*