IA and crowdsourcing software engineer

- **Education: minimum baccalaureat + 5 years (high school engineering degree or PhD)**
- **Experience: minimum 2 year.**
- **Work contract: 2 years CDD, full-time job,**
- **Where: at Paris-Saclay University, LISN, ASARD team (6 engineers)**
- **When: starting May 2022**
- **Salary: from 2536€ to 2720€ gross monthly depending on experience**
- **Hiring institution: CNRS**

Missions:

The LISN lab from Paris-Saclay University (Laboratoire Interdisciplinaire des Sciences du Numérique) is hiring for a research engineer. We are looking for a backend and mobile frontend developper to work on a real-time evaluation platform for on-line news recommender systems. The Renewal platform benchmarks machine learning algorithms and computes a real-time evaluation of their performance in a leaderboard. The innovation is the use of dynamical on-line datasets : web news. News articles are scrapped, crawled and used by the recommender systems to be suggested via a mobile application to the users. The recruited person will be in charge of enhancing existing features, administrating the test and production infrastructures as well as participating to the upcoming scientific studies.

Main activities:

- learning from the existing architecture and duplicating it with a second production environment to insolate pending developments ;
- adding user-test procedures to ease the interfacing of recommender systems to the backend ;
- hardening the platform against recommender systems malfunctions;

- developping new features ;
- keeping the documentation for developpers, deployment and users up-to-date ;
- preparing events and supporting competitors during workshops;

- Dissemination of the work through documentation, blog post and article writing.

Knowledges:

- technical competences in docker microservices web architectures (asyncio python, MongoDB, RabbitMQ, crawlers...), APIs, web sockets;

- programming skills in Python and associated tools, including in Machine Learning area;
- familiarity with collaborative development tools and frameworks (gitlab, continuous integration) ;
- mobile applications development experience with android and IOS would be a plus (expo, javascript, React);

- appreciated knowledges in NLP analysis techniques (keywords, sentiment analysis, popularity…) or in social networks tools interfacing (ex : Google Firebase) ;
- Capacity to efficiently work in a team and scientific environment.

Context:

The LISN is a research unit belonging to the « Institut des Sciences de l'Information et leurs Interactions » from CNRS and to the Paris-Saclay University Computer Science Graduate School. The lab also hosts project teams and research teachers respectively from Inria and CentraleSupelec, the other two LISN institutional partners. LISN's research strengths cover both core computer science and engineering science topics, as well as interdisciplinary topics: artificial intelligence and data science, human-machine interaction, automatic language and speech processing, and bioinformatics. The LISN gathers more than 380 persons within 4 departments. The present position is offered in the data-science department.

Renewal project is coordinated by the ASARD team (service d'Accompagnement et Soutien aux Activités de Recherche et Développement) which role is to sustain the software production of the scientific teams in order to capitalize development good practice. Renewal platform is currently operational in a prototype version. We are looking for a polyvalent engineer, with a solid machine learning background, motivated by challenges and an autonom environment. He will have the opportunity to pedagogically drive competitors in whorkshops. The candidate, already having at least a first professional experience, will take benefit of this contract to gain a rewarding experiment from possible trainings and contacts with the scientific team : talks, discussions, knowledge sharing...

Application process:

Please, send your CV and a cover letter to anne-catherine.letournel@lisn.upsaclay.fr

2022 Feb, 16