

Postdoctoral position: Banking data analysis for fraud detection in online payments

Context: The volume of online sales in France is continuously increasing. Remote payments on the Internet concentrate most of the fraud on French credit cards (70% of the amount of fraud (255 M €) while it represents only 14% of the value of national transactions). Fraud is a complex phenomenon to detect. Indeed, fraudsters constantly adapt their techniques in order to outsmart the system, which poses a financial and reputational risk to e-commerce sites and banks.

Goal of the project:

The project aims to develop machine learning methods for the detection of credit card frauds. This project is a collaboration between the company Enygma, specializing in the detection of bank frauds, and the IRIMAS research institute specializing in machine learning methods.

Prerequisites:

Applicants must have a PhD in Computer Science and demonstrate experience in the field of machine learning. We are looking for a profile with good experience in deep learning methods as well as programming in Python. Experience in optimization as well as CUDA programming would be a plus.

Working conditions:

- Duration: 12 months
- Gross salary : 3250 €/month
- Location: Université de Haute-Alsace, Mulhouse

Working environment:

The recruited person will be integrated within the IRIMAS research institute and will work more specifically in collaboration with Prof. Lhassane Idoumghar and Dr. Julien Lepagnet from the OMéGA team and Dr. Jonathan Weber and Dr. Maxime Devanne from the MSD team. It will benefit from the laboratory's computing servers and a dynamic and stimulating scientific environment.

Contact:

Please contact Prof. Lhassane Idoumghar (lhassane.idoumghar@uha.fr), Dr. Jonathan Weber (jonathan.weber@uha.fr), Dr. Julien Lepagnet (julien.lepagnet@uha.fr) or Dr. Maxime Devanne (maxime.devanne@uha.fr) for more information about the position.