Ismael Ouattara

Student at Ecole Polytechnique/Telecom Paris Looking for cyber security and machine learning thesis

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Education

2021 – Ongoing	**Telecom Paris and Polytechnic Paris Institute**, *Palaiseau*, France's leading schools of informatic Spécialization: **Cyber Security**, **Machine Learning** and **Mobile Network**. Master IP Paris in **Machine Learning**, **Communication** and **Security**.
2018 – 2022	**Ecole Polytechnique**, *Palaiseau*, One of france's leading schools of science and engineering Spécialization: **Cyber Security** and **Machine Learning**. Courses followed: **Computer Science**(Computer Architecture, Network and Information Security, Cryptology, Distributed Computing, Machine and Deep Learning, Compilation), **Applied Mathematics**(Statistics, Markov).
2016 – 2018	**INP-HB**, *Yamoussoukro, Ivory Coast*, Intensive undergraduate program leading up to competitive nationwide entrance examinations to the "Grandes Ecoles de France"("Classes préparatoires"), ranked 15th in the entrance examination at "Ecole polytechnique", Advanced courses in **mathematics** and physics
2013 - 2016	**Lycée scientifique de Yamoussoukro**, *High school in Ivory Coast*

Work experience

March 2022 – Ongoing	**Research Intern**, Alcatel-Lucent International Nokia Bell Labs, Nozay, France ○ Machine Learning based detection attacks on 5G network using **knowledge graph convolutional network**.
April 2021 – August 2021	**Research Intern**, *INRIA*, Rennes, France ○ Design of a meta model of **cryptographic** architectures for verifying compliance with the good practice.
June 2020 – August 2020	**Summer Intern**, *CIE*, Abidjan, Côte d'Ivoire ○ Detection of anomalies on electrical installations from aerial images using **Keras**, **Tensorflow** and **Pytorch**.
January 2021 – December 2021	**Webmaster**, *FAOS*, Paris, France ○ Business accelerator agency: Development of Faos platform with wordpress.
October 2018 – March 2019	**Teaching assistant and oral examiner(colle)**, Lycée Janson de Sailly, Paris, France ○ Delivered classes to students(Classes préparatoires).

Project

September 2018 – March 2022	**Working on projects** ○ Implementing a point-to-point **communication** system of an **optical fiber**, a **generative deep neural network** representing the channel, a predictive model for the receiver. ○ Setting up a **dynamic pricing** and **recommandation system** on sales platforms to reduce food waste. ○ **Predicting** which driver signups are most likely to start driving for uber and the number of retweets of a tweet. ○ Resolution of many challenges about **cyber attacks** on root me platform(pseudo: Xma99). ○ Implementing **snort** rules to build firewall for securing a local network and **yara** rule to detect a specific malware. ○ Implementing a mini c **compiler** using java.

Voluntary experience

June 2019 – March 2021	**Member of X-Afrique**, *Ecole Polytechnique*, France ○ X-Afrique works towards promoting the african culture, personal and professional opportunities in Africa and the challenges that young african leaders have to overcome in the near future.
September 2018	**Leadership and military training**, *French army*, La Courtine, France ○ Workshops in command exercises, development of leadership and teamwork; ○ Attended military training to improve the mental and physical strength. ○ Organizing incorporation for the new student at "Ecole polytechnique".

Skills and personnal interests

Computer knowledge
○ Programming languages: C, C++, java, python, R, Assembly language: X86.64.
○ Webmastering and data management: HTML5, CSS3, JavaScript, PHP, PHPMYADMI, My SQL, Wordpress.

Languages
○ French, English, Chinese, Spanish.

Sports
○ **Basketball**, point guard of the school team, and former point guard of the team in high school.