

JOËL ROMAN KY

Engineering Student at Toulouse INP-ENSEEIH looking for a PhD starting from October 2021

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🌐 Joel Roman Ky

EXPERIENCE

Machine Learning Research Intern

Vitesco Technologies

📅 Apr 2021 – Sept 2021

📍 Toulouse, France

- Research internship in academic collaboration with ANITI, IMT and LAPLACE
- State of the art of modeling the aging of PEM fuel cell.
- Prototyping of Machine Learning models for Remaining Useful Life estimation.

Research Project in AI

Groupe SII

📅 Nov 2020 – Mar 2021

📍 Toulouse, France

- State of the art on algorithms and frameworks about drones positioning and humans detection.
- Face detection through a drone and chatbot conception.
- Drone positioning
- Tools: Python, TensorFlow, Unreal Engine, AirSim

R&D Deep Learning Intern

INSPI

📅 June 2020 – Sept 2020

📍 Toulouse, France

- State of the art of Deep-Learning and pre-trained segmentation models
- Distributed training and deployment of interior image segmentation models in PyTorch through AWS SageMaker
- Conversion of segmentation Deep-Learning models (PSPNet, Resnet) from the Caffe platform to TensorFlow / Keras
- Creation of scripts for preprocessing image datasets for training
- Tools : Python, Computer Vision, Tensorflow, PyTorch, Caffe, AWS SageMaker, Flask

EDUCATION

Master of Science in Computer Science

University Toulouse 3 Paul Sabatier

📅 September 2020 – Now

📍 Toulouse, France

- Master of Science **Performance in Software, Media and Scientific Computing**

Engineer in Computer Science and Telecommunications

Toulouse INP-ENSEEIH

📅 September 2018 – Now

📍 Toulouse, France

- Specialization **High Performance Computing & Big Data**

Preparatory Courses MPSI/MP

Lycée Mohamed V

📅 September 2016 – July 2018

📍 Casablanca, Maroc

High School Diploma Speciality Mathematics

Prytanée Militaire de Kadiogo

📅 September 2009 – June 2016

📍 Ouagadougou, Burkina Faso

COURSEWORK

- Machine Learning (SVM, Decision Trees, Random Forests, Ensemble Learning, ACP, Clustering)
- Deep Learning (Computer Vision, NLP, Auto-Encoders, GAN, Reinforcement Learning)
- Cloud Computing (Docker, Kubernetes)
- Big Data (Hadoop, Spark, Storm SQL)
- AWS (SageMaker, S3, Lambda, EC2)
- Project Management (Scrum, Git)

COMPUTER SKILLS

• Programming

Python Java R Matlab LaTeX
SQL C/C++ HTML

• Framework

Linux Scikit-Learn Numpy
Matplotlib Seaborn Pandas
PyTorch TensorFlow Keras
OpenCV AWS Eclipse Git Flask

STRENGTHS

Team Work Rigor Autonomy

PROJECTS

- **Challenge AI INSA Toulouse 2021 Oct 2020 – Jan 2021**
 - NLP Project of text classification for job description.
- **Hackathon ActInSpace 2020 Oct 2020 – Nov 2020**

LANGUAGES

French
English
Spanish
Japanese



HOBBIES

Volley-Ball E-Gaming Piano