

Muhammed Kouate

BSc STUDENT IN COMPUTER SCIENCE · UNDERGRADUATE RESEARCHER IN COMPUTER VISION

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Education

Stanford University

California, USA

VISITING STUDENT RESEARCHER (COMPUTATIONAL NEUROSCIENCE LAB)

March 2021 - Oct. 2021

- Worked on a semester project co-supervised by Professor Ehsan Adeli and Professor Niki Martinel. Topic: generation of images starting from the text with VQGAN+BART.

Università degli studi di Udine

Udine, Italy

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Oct. 2017 - Present

- Relevant coursework: Data Science, Machine Learning for Big Data, Data Analytics (elective course), Computer Vision (elective course), Internet of Things, Algorithms and Data Structures, Calculus, and Databases.

Experience

BidPremium Srl

Udine, Italy

AI ENGINEER IN COMPUTER VISION (PART-TIME)

March 2020 - Present

- Analyzed the state-of-the-art to identify the most appropriate techniques for the task (papers, and surveys).
- Collected a curated dataset with scripts in Python (CVAT, PASCAL VOC, COCO, and YOLO format).
- Implemented the most promising models with Pytorch or Tensorflow, and tested their performance on the internal dataset.
- Development and maintenance of Web Services and / or API (Flask API) with related documentation for the customer.

Datamantix Srl

Udine, Italy

AI SOFTWARE DEVELOPER (PART-TIME)

Nov. 2019 - March 2020

Cleaned the datasets through Python scripts, and performed the training with Fast.ai. Project for which I actively contributed: detection of diabetic retinopathy through deep learning techniques.

Honors & Awards

PRAIRIE MIAI Artificial Intelligence Summer School, Student, Summer School organized by Prairie and

July 2021 MIAI@GRENOBLE ALPES with the support of Inria and NAVER LABS Europe. Topics: Computer Vision, NLP, robotics, and healthcare. Speakers: Cordelia Schmid, Yann LeCun, and many more.

France (Virtual)

DeepMind, Student, Selected by DeepMind to participate in M2L structured around 6 days of keynotes,

Jan. 2021 lectures, and practical sessions. Topics: Generative models, Deep Reinforcement Learning, and many more. Speakers: Christopher Bishop, David Silver

Milan, Italy (Virtual)

Nov. 2020 **Huawei, "Seed For the Future", Intern**, Chosen by Huawei among Top 50 Italian ICT talented students to attend a training program (AI, IoT, and many others).

Beijing, China (Virtual)

Oct. 2020 **Lead The Future, Mentee**, Among the few Italian students selected to be mentees for LeadTheFuture, with an acceptance rate below 20%. Mentor: Francesco Visin, DeepMind

Italy

2019 **UNIUD**, Scholarship winner thanks to academic performance.

Udine, Italy

2018 **UNIUD**, Scholarship winner thanks to academic performance.

Udine, Italy

2016 **UNESCO**, Guest of honor at "Language Marty's Day and International Mother Language Day".

Milan, Italy

Skills

Programming Languages	Python3, Java SE, Scheme, Javascript
Technical Skills	Bash, Zsh, SSH, LaTeX, Markdown, Jupyter Notebook, RegEx, debugging (GUI, gdb), TDD, OOP
Frameworks and Libraries	Pytorch, Tensorflow, Fast.ai, NumPy, SciPy, Matplotlib, Flask API
Software	Git, GitHub, Linux/Windows/MacOS, Jupyter Notebook/Lab, VS Code, Pycharm
Languages	English, French, Italian (native), Wolof (Native)

Certifications

In progress, AI for Medicine Specialization - Deeplearning.ai

[Coursera](#)

Jan. 2021 , Intro to Deep Learning with Pytorch

[Udacity](#)

Nov. 2020 , Deep Learning Specialization - Deeplearning.ai

[Coursera](#)

Articles

Feb. 2021 , Classic Seq2Seq model vs. Seq2Seq model with Attention “Let’s pay Attention now!” [LINK](#)

[Towards Data Science](#)

Feb. 2021 , Popular Datasets for 3D Human Pose Estimation “Acquire the knowledge to interpret and create your own datasets” [LINK](#)

[Towards Data Science](#)