

# Muhammed Kouate

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## EDUCATION

### University of Udine (Italy)

October 2017 – October 2021

- B.Sc. in Internet of things, Big Data & Machine Learning | Department of Computer Science
- 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

### Stanford University, Visiting Research

December 2020 – Present

Computational Neuroscience Laboratory (CNS<sup>LAB</sup>) under the supervision of Dr. Ehsan Adeli

### BidPremium, AI Engineer Part-Time

March 2020 – Present

Responsible for the defects detection pipeline, processing images of fabrics, cables, and lenses.

**1)** Analyzed the state-of-the-art to identify the most appropriate techniques for the task (papers, and surveys), **2)** Collected a curated dataset with scripts in Python (CVAT, PASCAL VOC, COCO, and YOLO format), and **3)** Implemented the most promising models with Pytorch or Tensorflow, and tested their performance on the internal dataset

### Datamantix, AI Software Developer Part-Time

November 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*.

## PROJECTS & ACHIEVEMENTS

### MINIMAL MIRROR (school project):

Open-source modular smart mirror powered by Raspberry Pi 3 Model B+.

After assembling my Magic Mirror, I implemented the following features (NowPlayingOnSpotify, TelegramBot, ...).

More info on my GitHub page.

### Lead The Future, Mentee

October 2020 – Present

Among the few Italian students selected to be mentees for LeadTheFuture, with an acceptance rate below 20%.

### Huawei “Lead For The Future”, Intern

9<sup>th</sup> – 13<sup>th</sup> November 2020

Chosen by Huawei among Top 50 Italian ICT talented students to attend a training program (AI, IoT, and many others)

### Mediterranean Machine Learning school, Student

11<sup>th</sup> – 15<sup>th</sup> January 2021

Selected by DeepMind to participate in M<sup>2</sup>L structured around 6 days of keynotes, lectures, and practical sessions.

### GoHuman, Podcast about Machine Learning

2017–2018

Created a podcast with my fellow university students on Machine Learning. We had several guests (Professors, and CEOs)

## HONORS AND AWARDS

University of Udine, Scholarship winner thanks to academic performance

2017-2018 & 2018-2019

UNESCO, Guest of honor at “Language Marty’s Day and International Mother Language Day”

November 2016

## TECHNICAL SKILLS

- Java, Python, Pytorch, Tensorflow, Keras, Fast.ai, CUDA, Implement neural network architectures (CNN, RNN, ...), Deep Learning techniques.
- Italian (Native), Wolof (Native), English, French

## CONTINUED LEARNING

Deep learning specialization, and Machine Learning course by Andrew Ng, and AI for Medicine specialization by P. Rajpurkar