

# 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, Mathematics and Physics
- 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.

- Analyzed the state-of-the-art to identify the most appropriate techniques for the task
- Collected a curated dataset
- Implemented the most promising models and tested their performance on the internal dataset

### Datamantix, AI Software Developer Part-Time

November 2019 – March 2020

- Cleaned the datasets through Python scripts
- Performed the training with Fast.ai

Project for which I actively contributed: *detection of diabetic retinopathy through deep learning techniques*.

During this experience, I had the opportunity to approach Computer Vision for the first time.

## PROJECTS & ACHIEVEMENTS

### Lead The Future, Mentee

October 2020 – Present

Among the few Italian students selected to be mentees for LeadTheFuture, a leading mentorship non-profit organization for students in STEM, with an acceptance rate below 20%.

*Mentor:* Francesco Visin, DeepMind

### 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 related to several innovative topics like Artificial Intelligence, 5G, Cloud Computing, IoT, SmartHome, and many others.

### Mediterranean Machine Learning school, Student

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

Selected by DeepMind (Google) to participate in M<sup>2</sup>L. The Mediterranean Machine Learning Summer School will be structured around 6 days of keynotes, lectures, and practical sessions.

Topics: Computer Vision, NLP, Generative models, Deep Reinforcement Learning, Robotics, and many more

Speakers: Christopher Bishop (Microsoft Technical Fellow), David Silver (DeepMind, Research Scientist), Marc'Aurelio Ranzato (Facebook AI Research, Co-founder), Gaia Rubera (Bocconi University, Professor), and many more.

### GoHuman, Podcast about AI & Data Science

2017–2018

Created a podcast with my fellow university students on Data Science, Machine Learning & Deep Learning. We had several guests, such as Professors, and other CEOs and professors working in this sector.

### School Projects:

2019 – 2020

- **MINIMAL MIRROR:** open source modular smart mirror powered by Raspberry Pi 3 Model B+.

After assembling my Magic Mirror, I implemented the following features (Calendar, NowPlayingOnSpotify,

TelegramBot, and many more). More info on my GitHub page.

## HONORS AND AWARDS

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**University of Udine, Scholarship winner** 2017-2018 & 2018-2019

Awarded with the scholarship for two consecutive years thanks to my academic performance.

**UNESCO, Guest of honor at “Language Marty’s Day and International Mother Language Day”** November 2016

Elected as one of the main speakers

## TECHNICAL SKILLS

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

## CONTINUED LEARNING

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- Deep learning specialization by Andrew Ng (Coursera)
- Machine Learning by Andrew Ng (Coursera)
- AI for Medicine specialization by Pranav Rajpurkar (Coursera)
- Computer Science with Python (Codecademy)
- React from Scratch (Heply)