

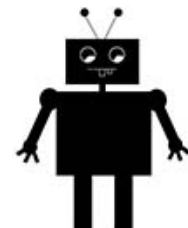
# Lloyd Acquaye THOMPSON

MSc. | Machine Learning |

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Accra, Ghana | <https://nii4u.github.io/>



I am optimistic about the applications of Machine Learning, Computer Vision, and Robotics in solving real-life problems. I have relevant experience and continue to work tirelessly to enrich my skills. I benefitted from a Facebook and Google scholarship in the African Masters in Machine Intelligence Program, and I believe in perseverance and making use of opportunities. I am resilient, self-motivated, and able to adapt to new and challenging environments at any point in time.

## PROFESSIONAL EXPERIENCE

Currently March 2022	<b>Pi SCHOOL of A.I   Research Fellow , ITALY,</b> ➤ Working on a dataset to make predictions for vehicle fuel consumption in the telematics industry <a href="#">Slack</a> <a href="#">GoogleMeet</a> <a href="#">Colab</a>
July 2021	<b>Neuromatch Academy   Lead TA for Computational Neuroscience, and Volunteer for Deep Learning, , Online</b>
August 2021	➤ Facilitated the learning process through teaching, tutorial, a project, and providing support to other TA's in the megapod. <a href="#">Zoom</a>
2015 - 2018	<b>Mint Innovations   Lead, Technical and Strategic Development for Artificial Intelligence Education, Accra, Ghana</b> ➤ Involved in designing and implementing robotics course modules on A.I Pattern Recognition and Image Processing using SpyBot <a href="#">Arduino</a> <a href="#">Raspberry Pi</a> <a href="#">ScrapBotTV</a> <a href="#">Lego Robot</a> <a href="#">E-Z Robot</a>
2014 - 2015	<b>Technology Research and Innovation Center (TRIC)   Research Assistant, FUNDED BY MESTI-COTVET, Accra - Ghana</b> ➤ Developed an Incident Reporting System, which was intended for the Ghana Police Service and the Ghana National Fire Service <a href="#">Android</a> <a href="#">iOS</a> <a href="#">Mobile App</a> <a href="#">Eclipse</a> <a href="#">Accident Reporting System</a>
May 2015 November 2013	<b>Mint Innovations, TUTOR, Accra, Ghana</b> ➤ Teaching how to design and build electronic circuits through the usage of breadboards, LED's, push buttons and servo-motors <a href="#">Legos</a> <a href="#">LegoMindStorm EV3</a> <a href="#">STEM EDu</a>
September 2014 September 2013	<b>Ghana Technology University College (GTUC)   Teaching Assistant, ACCRA - GHANA,</b> ➤ Laboratory Assistant for C++ , HTML and Python ➤ Supporting students on research projects and thesis documentation <a href="#">Linux</a> <a href="#">Microsoft Office</a> <a href="#">SQL</a> <a href="#">HTML</a> <a href="#">Python</a>

## EDUCATION

2019-2020	MSc. African Masters for Machine Intelligence (African Institute of Mathematical Sciences, Rwanda)
2009 - 2013	BSc. Information Technology, Ghana Technology University College, Accra, Ghana
2006 - 2007	Advanced Certificate in Information Technology, NIIT, Ghana

## PUBLICATION/MEDIA

- 2021 Fast Development of ASR in African Languages using Self Supervised Speech Representation Learning : <https://arxiv.org/abs/2103.08993>
- 2015 Aljazeera, Innovate Africa : [https://www.youtube.com/watch?v=AZEN\\_JqTYdk](https://www.youtube.com/watch?v=AZEN_JqTYdk)
- 2013 ScrapBot TV

## SKILLS

Programming	Python, Pytorch, C++ and Deep Learning Related Frameworks and Packages, PDDL, Arduino, Raspberry-Pi, NXC, mBlock
Database	MySQL, PostgreSQL
Tools	MS Office Suite, Google Suite, Latex, Git
Operation System	Linux, Windows, Mac-OS, iOS, Android
Others	LegoMindStorms, E-Z Robot

## LANGUAGES

English ●●●●●  
French ●●○○○

## FORCES

- > Resilient
- > Self Motivated
- > Able to work under pressure
- > Goal Oriented

## HONORS AND AWARDS

- 2019 Full Scholarship from Facebook and Google : MSc. Machine Intelligence
- 2013 First Class Honors, BSc. Information Technology, Ghana Technology University College
- July 2013 University of Health and Allied Sciences, Ho, Ghana (Resilient Africa Network, Seminar)
- 2007 Outstanding Student Award, Advanced Certificate in Information Technology, NIIT Ghana

## PROJECTS

### UNSUPERVISED KEYPOINT REPRESENTATION, DYNAMICS MODELING AND CONTROL

CURRENTLY

#### Masters Project, Supervised by Dinesh Jayaraman, University of Pennsylvania-USA

I am working on getting a faster keypoint representation from videos to predict their future positions and then control the movements through visual-servoing

### AN INTELLIGENT LEGO ROBOT TO SORT MARBLES USING COLOR RECOGNITION

2013

#### Undergraduate Project

I assembled and programmed a Lego Color Sorter that is able to identify and sort different colored pebbles, and place them in the respective trays, this is a symbolic representation of how possible it is for A.I to sort cocoa beans.

### LEGO RUBIKS CUBE SOLVER

2014

#### DIY Project

This project was to solve the famous Rubik's Cube using a Lego robot, the idea tested how algorithms can be translated to workable programming source-code.

## OUTREACH AND VOLUNTEERING

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- 2016/2019 Humanist Association of Ghana : Organizing Secretary, (Promoting Science and critical thinking in Primary, Secondary and Tertiary level through the Freethinking Campus project and the Book-Drive donation)
- 2013 - 2015 Free Campus Micro-controller Training Program : Initiated the free campus workshop for students to learn how to program and build prototype projects. A few of the projects we worked on are Obstacle Avoiding Robot, Weather Monitoring Station, Arduino for Speech Recognition and Autonomous Lane Keeping Car with Raspberry Pi and Legos
- 2012 Metro Institute of Innovation and Technology : Had the opportunity to introduce a group of young graduates from Orphanage Africa to computers, i.e. MS Office Suite, Intro to the Internet, Google Apps etc

## REFERENCES

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### **Moustapha Cisse, Professor**

*Facebook A.I., (FAIR)*

@ mcisse@aimsammi.org

### **Laurent Besacier, Professor**

*Naver Labs - Europe,*

@ laurent.besacier@univ-grenoble-alpes.fr

### **Teta Bahunde**

*AMMI, Program Manager,*

@ tbahunde@aimsammi.org