

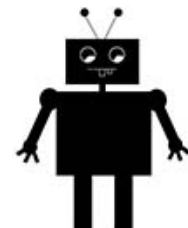
Lloyd Acquaye THOMPSON

MSc. | Machine Learning | Robotics

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

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
- 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

Pytorch Computer Vision Machine Learning Robotics

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.

C++ Lego NXC CodeBlocks

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.

C C++ Arduino Raspberry Pi

OUTREACH AND VOLUNTEERING

- 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

Moustapha Cisse, Ph.D

Facebook A.I, (FAIR)

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Angela Tabiri, Ph.D

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