Mubarek Mohammed

🔗 **Website**

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Addis Ababa**
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EXPERIENCE

**Information Network Security Agency, Ethiopia —
Artificial Intelligence researcher**
2020-present

**Information Network Security Agency, Ethiopia —
Cryptanalysis researcher**

2019 - 2021

Cyber Army Development Institute
Curriculum development
November 2018-April 2019

Ethiopian Shipping Lines S.c
Data analysis and Officer, 2013 to 2015

EDUCATION AND TRAINING

Addis Ababa University, Addis Ababa — *Masters*
Master of Science in Artificial Intelligence
Time: 2020-2022

Addis Ababa University, Addis Ababa — *Degree*
Bachelor of Science (BSc) Mathematics (3.6 CGPA)
Time: September/2009-July/2012

Cybersecurity Analysis Course, Tel-Aviv, Israel —*certificate*

Cybint, 2018

Cyber Intelligence Course, Tel-Aviv, Israel — *certificate*

Cybint, 2018

Cyber talent development program, Tel-Aviv, Israel — *certificate*

Cybint, 2018

Hilcoe School of Computer science, Bridging Courses for MSc

Addis Ababa Ethiopia, 2017-2018, then 2019

PROJECTS (Link)

- Implementations in AI (DL , ML and computer vision)
- Adventures in model **explainability**
- Implementations in model **compression algorithms**
- Adventures in Zindi data science program
- A simple self adjusting dictionary implemented from scratch Python
- Password generator tools
- IOT devices vulnerability analysis using opensource tools
- Cyber talent development program
- Cryptopals.com a set of challenges to teach cryptography

Publication
- Model Compression techniques in Deep Neural Networks Springer Journal Lecture Notes in Computer Science LNCS

RESEARCH EXPERIENCE
- A graduate thesis on model compression (Submitted)
- A guideline for AI based Cybersecurity (Internal document)
- Effect of Deep fake and detection mechanisms
- A study on platform design paradigmes (Internal document)
- A design document for a cryptanalysis platform (Internal document)
- Prepare an introductory course on cryptography
- A report on IOT security and vulnerabilities

INTEREST
- Neural Network Model Compression
- Explainability (Mechanistic) and Alignment
- Cryptography and Cybersecurity
- Mathematics
- NLP, AGI and Cognition

EXTRACURRICULAR CERTIFICATIONS
- Project Managment
- Modern Accoutning and Finance
- Strategic Managment and Planning
- Information systems

OTHER STUFF

- Study of self-development and personalities
- Algorithms and personalities: blog series https://ube10.medium.com/
- Miscellaneous business and social ventures
- Sherlock Holmes stuff(books, movies, etc)
- Conferences, hackathons, workshops in tech and entrepreneurship

GOALS

- PHD in the long run
- Influential and **chain reactive projects**
- International AI experience
- Publish