

Mubarek Mohammed

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EXPERIENCE

Information Network Security Agency, Ethiopia —
Artificial Intelligence and data mining researcher
2021-present

Information Network Security Agency, Ethiopia —
Cryptanalysis researcher
2018 - 2021

EDUCATION AND TRAINING

Addis Ababa University, Addis Ababa — Masters
Master of Science in Artificial Intelligence(GC 2022)
In progress

Addis Ababa University, Addis Ababa — Degree
Bachelor of Science (BSc) Mathematics
Grade: 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 program, Tel-Aviv, Israel — certificate
Cybint, 2018

PAPER REVIEWS

- A survey on malware image classification based on CNN architecture
- Acquisition of a space representation by a naive agent from sensorimotor invariance and proprioceptive compensation
- Additive Similarity Trees: a survey
- Pseudo Random Number Generation through RL and RNN: review
- Applications of RNN on electric power consumption prediction: a survey
- Applications of DL on encrypted network traffic classification
- Other paper reviews in AI and Data science

SKILLS

Programming
Data Analysis in Excel
Algorithms and DS
Fundamentals of DBMS
Complexity Analysis
Systems analysis

COURSES AND CERTIFICATIONS

Cyber Talent Program
Modern Accounting System
Fundamentals of IS
Programming (C++)I and II
DS and Algorithms
C programming language
Numerous courses in AI

PROJECTS

- Cryptanalysis platform
- Cryptool 2 contribution
- Sudoku solver with CSP
- Price prediction with LSTM
- Malware image classification
- Cryptopals.com
- Implementations in computer vision, graphical models, visualization, ML, DL, etc

NON-TECHNICAL (DOCUMENT BASED) PROJECTS

- A guideline for AI based Antivirus
- Effect of Deepfake, creation and detection mechanisms
- A guideline for AI based Network Analysis Tool
- A study on platform design paradigms
- A design document for a cryptanalysis platform
- An introductory course on cryptography
- A report on IOT security and vulnerabilities
- Cyber talent development program: re-designed proposal

HOBBIES AND LANGUAGES

- Study of self-development and personalities
- Amharic (Mother tongue) and English (ILTS 6.5)
- Arabic, Urdu and Siltigna Language (Learning)
- Sherlock Holmes stuff

EXTRACURRICULAR

- The first amharic book on AI (ongoing)
- Algorithms and personalities: amharic book (frozen)
- Compressive workshop on personality development,tech and entrepreneurship for 11 and 12 grades (pilot started, proposal level)
- Miscellaneous business and social ventures

OTHER INTERESTING EXPERIENCES

- Seamanship and Ship steering certificate (Steered a commercial ship, Mv Assosa, for enough hours to get a license)
- Underwriter for an insurance company
- Basic Fire fighting and First aid
- A course on modern accounting and the financial landscape
- Conferences, hackathons, workshops in tech and entrepreneurship both locally and abroad (in Israel)

SHORT TERM GOALS(2022)

- Complete masters program in AI
- Present at least one work on the second AI expo coming this year
- Deploy at least one project at country level with agency(INSa)
- Establish AI center (research,solution, training, local data, consult, etc)
- Realize at least one of my social projects

LONG TERM GOALS

- Advance my study to PHD program
- Influential and chain reactive project both at INSA and the center
- Publish prominent works