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Israel A. Azime

Senior Machine Learning Engineer | Programmer

israelabebe.github.io GitHub: IsraelAbebe LinkedIn: israel-abebe

I am a software developer with extensive ML industry experience. My research interests include multi-modal learning, natural language processing and real world applications of deep learning.

EDUCATION

Master of Science Mathematical Sciences - Machine Intelligence,

African Institute for Mathematical Sciences

October 2019 – March 2021 Ghana,Accra

Worked on Exploring Data Imbalance and Modality Bias in Hateful Memes with my supervisor Marcus Rohrbach for my final research thesis. In the project I achieved +8% and +1% improvement on accuracy and f1 score respectively.

Bachelor of Science Software Engineering,

Addis Ababa Universty

September 2012 – December 2017 Addis Ababa, Ethiopia

Graduation Project: Amharic online handwriting recognition keyboard.

WORK EXPERIENCE

Applied Research Data Scientist

iQuartic, New Wave

March 2021 - Present

Maryland, USA (Remote)

- Lead a team of data scientists that Worked on AI solution for automated risk adjustment pipeline.
- ICD Code Extraction
- · Visit Recognition
- Medical OCR
- Medical Spellchecker

Applied ML Developer

June 2017 – Present Addis Ababa, Ethiopia

SingularityNet,Icog-Labs Software Consultancy

NuNet: Developed fake news detection and classification models for NuNet with 0.97% accuracy.

- Web Page Recommendation: Built web page recommender system using Doc2vec similarity and DeepCTR approach.
- Image Retrieval Network: image retrieval network on 50 GB Google open images dataset.
- Holistic Edge Detection: integrated a holistically-nested edge detection model.
- People Analytics Service: predicting behaviors and attributes from Organizational slack communication graph.
- Network Analytics Service: Worked on providing graphs and network processing functions as a service.
- Plant Disease Recognition: Achieved 98% accuracy on Plant disease detection Networks and experiment with GANs.
- Semantic Vision Experiments: Exploring papers and experimenting on different GAN types for scene understanding task.
- Age and Gender Recognition: age and gender recognition network with 78% and 83% accuracy.

Internship - Junior Programmer

Icog-Labs Software Consultancy

Jan 2015 – May 2017 Addis Ababa , Ethiopia

• (YANETU) - Develop ai-based teaching assistant for kids. launched an Indiegogo campaign.

SKILLS

Additional

Ml Libraries and Frame works ML Concepts

Python, PyTorch, Tensorflow, SciPy, NumPy, Pandas, ApacheSpark, Docker Deep Learning, Computer Vision, Natural Language Processing Project Management, Teamwork, Mentoring, Public Speaking

Language Amharic(Native), English(fluent speaker)

CERTIFICATIONS

Deep Learning Specialization - link

Gamification - link

Mathematics for machine learning: linear algebra - link

Introduction to game development link

Principles of game design -link

Html, CSS and Javascript - link R programming - link

Software processes and agile practices - link

DeepLearning.Al / Coursera.org University of Pennsylvania / Coursera.org

Imperial College London / Coursera.org Michigan State University / Coursera.org

Michigan State University / Coursera.org

HKUST / Coursera.org

Johns Hopkins University / Coursera.org

University of Alberta/Coursera.org

Introduction to TensorFlow for artificial intelligence, machine learning, and deep learning - link DeepLearning.Al / Coursera.org

PUBLICATION

MasakhaneNER: Named Entity Recognition for African Languages,2021Masakhane collaboration paperAfricaNLP, EACL

arxiv.org/abs/2103.11811 Huggingface model

Quality at a Glance:An Audit of Web-Crawled Multilingual Datasets,

Masakhane collaboration paper

arxiv.org/abs/2103.12028

2021

AfricaNLP, EACL

PROJECTS AND ACTIVITIES

Personal Projects - Amharic-NLP, Telegram Bot, Games in Unity 3D, Zindi Data science Competitions,

- Disaster prediction, DNA sequence Classification

Extra-Activities - NLP projects with Masakhane and EthioNLP

Solve-IT Instructor in nationwide innovation competition (2019).
 NASA Space Apps Challenge (Addis Ababa Participant 2018)
 PyTorch Facebook Scholarship Recipient- Udacity(2018)

- Nokia and BIT Scholarship Challenge Recipient - Udacity(2021)

REFERENCES

Marcus Rohrbach

research scientistat Facebook AI Research. mrf@fb.com

Moustapha Cisse

Research Scientistat Google AI centerin Accra, Ghana. mcisse@aimsammi.org or thorugh our school Program Manager Teta Bahunde (tbahunde@aimsammi.org) since he might not repond to all emails.

Viktoras Kabir Veitas

Inter disciplinary PhD researcher at Center Leo Apostel, Vrije Univer- siteit Brussel Al researcher software project manager,co-founder, NuNet.io. kabir@singularitynet.io or viktoras.veitas@vub.be