



Tadiyos Haile-michael Mamo

PhD Student and AI Researcher

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Website



Expertise

- AI in Healthcare
- Time-series Anomaly Detection
- Causal Learning
- Backend and API Development

Languages

- Amharic
- English
- Chinese
- Dutch

Programming Skills

- Java
- Python
- C/C++
- PyTorch
- Neo4J
- MySQL
- SQL
- Back4App
- RESTful API
- PHP
- Laravel
- JS
- Django
- HTML
- CSS
- CUDA/MPI

About Me

I am a proactive computer science professional with expertise in data mining, AI, machine learning, and backend development. Holding both a Bachelor's (2021) and Master's (2023) degree in Computer Science and Technology from UESTC, I have consistently excelled in academic achievements. I am committed to contributing to diverse projects and solving real-world challenges across various industries. I am always open to expanding my expertise and bringing innovative solutions to a wide range of roles, collaborating effectively to achieve organizational goals.

Working Experience

- March 2024 | Oct. 2022 **ML Engineer, Data Analyst, Backend and API Developer** **Freelance, Upwork**
Working on machine learning model development, data analysis, and backend development, with a focus on building scalable APIs and delivering AI-driven solutions for diverse clients.
- Sept. 2024 | Sept. 2023 **AI Research and Development** **SUSTech, Shenzhen, China**
Worked on multiple surgical workflow analysis projects post-MSc, focusing on instrument, phase, and triplet recognition in surgical video data.
- Sept. 2021 | June 2021 **General Software Engineer** **Huawei, Chengdu Research Institute**
One of the first two international students to be given the opportunity to join and work in "Huawei's Brave Star Internship Program" under the AI Research and Development Team.
- Jan. 2023 | Jan. 2018 **Assistant of College Counselor** **SCSE, UESTC**
Served as the assistant of the student department within the Student Affairs Office on behalf of international students at the School of Computer Science and Engineering (SCSE) at UESTC for **5 years**.
- Oct. 2020 | Sep. 2020 **Instructor of Android App Development Workshop** **SCSE, UESTC**
Organized and Instructed the "Android Application Development Workshop" for all international students at UESTC in collaboration with the School of Computer Science and Engineering (SCSE)

Education

- 2025 – Present **PhD in Computer Science** **QUB**
School: Queen's University of Belfast
- 2021 – 2023 **MSc. Computer Science and Technology** **UESTC**
Overall CGPA: 4.00/4.00 (First-Class Honours)
Dissertation Paper: A Deep Learning Framework for Anomaly Detection on Multivariate Time Series
- 2017 – 2021 **BSc. Computer Science and Technology** **UESTC**
Awarded National Level Scholarship: Betre-Science, by Ethiopian Government.
Overall CGPA: 3.96/4.00 (First-Class Honours)
Thesis Title: Design and Implementation of Satellite Knowledge Graph

Projects

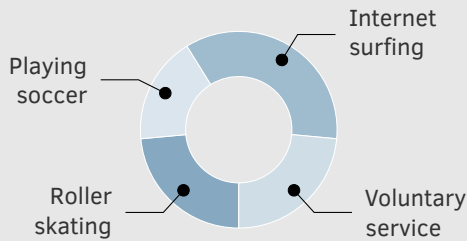
- 1 >>>>> Worked on Surgical Workflow Analysis, applying deep learning techniques for triplet recognition (instrument, verb, target) and phase recognition from surgical video data.
- 2 >>>>> Developed a comprehensive Deep Learning Framework for multivariate time series anomaly detection, alongside clustering, classification, and forecasting tasks.
- 3 >>>>> Designed and implemented a Satellite Knowledge Graph and its application in domain-specific queries and knowledge management.
- 4 >>>>> Worked on Time Series Anomaly Detection, Forecasting, and Classification for 5G device performance data during an internship at Huawei.
- 5 >>>>> Full-stack Development of E-commerce System (freelance project).

Why Me?

5 reasons why you should choose me:



Interest & Hobbies



SkillSets

- Languages:** Python, Java, C/C++, Windows Programming (Win32), PyTorch, Network Programming/Socket Programming, PHP, JS, HTML, CSS
- Databases:** MySQL, SQL, Neo4j, Back4App
- Others:** Parallel and Distributed Computing (CUDA and MPI), RESTful API, Application development (Web + Mobile + Desktop), Latex
- Platforms/Tools:** Windows, Linux, PyCharm, NetBeans, VS Code, Eclipse, Codeblock

Publication

ICAIDT 2023	Title: Design and Implementation of Satellite Knowledge Graph and Its Application	1st Author
ICAIDT 2023	Title: Electroencephalography Data Denoising with Deep Neural Networks	Co-Author
ICCWAMTIP 2022	Title: Privacy Preservation for Distance Based Data Mining in Distributed Data	Co-Author
ICCWAMTIP 2022	Title: Federated Lung Cancer Prediction Using Histopathological Medical Images	Co-Author

Extra Skills

- »»»»» Excellent time management, capable of managing multiple priorities while meeting deadlines.
- »»»»» Fast learner, able to quickly adapt to new technologies, tools, and processes.
- »»»»» Strong team player, collaborating effectively across functions and diverse work environments.
- »»»»» Friendly, approachable, and action-oriented, fostering positive relationships and driving results.
- »»»»» Problem-solving mindset with a focus on innovative solutions and continuous improvement.
- »»»»» Strong communication skills, both verbal and written, ensuring clarity and efficient collaboration.
- »»»»» High attention to detail, ensuring accuracy and quality in all deliverables.

Top Awards and Achievements

2021/2022	Top 3 Candidate for 2022 Excellent International Student of UESTC	
2019/2020	Top 3 Candidate for 2020 Excellent International Student of UESTC	
2021/2022	First-Prize Winner of Academic Achievement Award	UESTC
2019/2020	First-Prize Winner of Academic Achievement Award	UESTC
2018/2019	Second-Prize Winner of Academic Achievement Award	UESTC
2017/2018	First-Prize Winner of Academic Achievement Award	UESTC
2021/2022	First-Prize Winner of Excellent Performance Award	UESTC
2019/2020	First-Prize Winner of Excellent Performance Award	UESTC
2018/2019	Third-Prize Winner of Excellent Performance Award	UESTC
2017/2018	Third-Prize Winner of Excellent Performance Award	UESTC

Workshops & Extra-Curricular Activities

2017	Certified, KAIST ACM-ICPC - Programming Training
2022	Certified, USTC 2022 Future Scientist Exchange Program (FuSEP)
2020	Certified, C# Programming Workshop
2020	Certified, PHP Programming Workshop
2019	Certified, Deep Learning Workshop-II
2018	Certified, Deep Learning Workshop -I
2018	Certified, Website Development Workshop
2018	Certified, UESTC International Student Innovation Skill Contest
2022	Certified, Machine Learning with Python, by IBM
2022	Certified, Python 101 for Data Science, by IBM