FANTAHUN BOGALE GEREME

DETAILS

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Gender Male | DoB 1984 | Nationality Ethiopian

LANGUAGES

- Amharic
- English

SKILLS

- Communication
- Academic Leadership
- Industrial Team leadership
- Critical thinking, meticulous analytical skills
- Data analytics and visualization, research, analytical skill, planning, communication,
- Programming Languages: Python, Java, C++, SQL, etc.
- Machine Learning Techniques: Supervised and unsupervised learning, DL, CV, NLP, etc.
- AI/ML Frameworks: TensorFlow, PyTorch, Keras, Scikit-learn,
- ML Algorithms: Logistic Regression, Decision Tree, Random Forest, CNNs, RNNs, Transformers, etc.
- Cloud Platforms: AWS, Google Cloud, etc.

SUMARY

Assistant Professor | AI Researcher | Intelligent Data-driven Decisioning Expert | Principal Data Scientist with a strong background in academia-industry collaboration. Teaching and practicing AI in the academia and industry like FinTech, AgTech, and AI policy. Proficient in Python, Java, and C++, and experienced in leading research initiatives and data science teams. Holding a PhD in Computer Science & Technology (AI), MSc and BSc in Computer Science & IT, and an LLB, I offer a unique blend of technical, legal, and ethical insights to drive real-world AI innovation.

EXPERIENCE - Academic & Industry

10-11-2022 – present

Assistant Professor of CS (AI) and Researcher | Dean/Head of School of Information Technology and Engineering

Addis Ababa University, CTBE, SiTE, AI Chair

> Leading the school; Teaching Pg and Ug Artificial Intelligence (AI) related courses like Machine Learning, Deep Learning, Natural Language Processing, Computer Vision; developing instructional goals and specific instructional objectives; initiating, planning and managing projects; providing consultancy services; preparing teaching materials, assessment tools and assessing students; planning and conducting researches; curriculum development and review; supervising graduating students; participating in community services; paper review tasks in international journals and conferences.

23-09-2016 – 01-07-2017

Lecturer of Computer Science and SE

Bahir Dar University, Bahir Dar Institute of Technology

03-11-2015 – 22-09-2016

Lecturer of Computer Science, IT & IS

Debre Berhan University

14-09-2009 – 03-11-2015

Department Head, Lecturer of Computer Science, & Higher Diploma Program (HDP) Moderator

Dilla University

> Leading the department; moderating satellite universities and colleges in HDP program; Teaching theoretical as well as practical CS courses; Developing instructional goals and specific instructional objectives; Initiating, planning and managing projects; Providing Consultancy Services; Preparing teaching materials, assessment tools and assessing students; Planning and conducting research; Curriculum development, and review; Advising graduating students, other on demand tasks.

- AI Model development, model evaluation, model selection, model deployment and follow up

CERTIFICATIONS

- CCNA,
- CCNAS (CCNA Security);
- Microsoft Certified: MCITP, Mail and Exchange Server

04-09-2006 – 14-09-2009
System Automation Team Leader and IT Instructor
Ethio-Limat Company/Micro Business College

2024 – 2025
Intelligent Data-driven Decisioning Consultant | Principal Data Scientist
Kifiya Financial Technology
Addis Ababa, Ethiopia

2024-2025
National AI Strategy Development Consultant
Ethiopian Artificial Intelligence Institute
Addis Ababa, Ethiopia

As a consultant-developer of the national AI strategy, I contributed to the research and formulation of key strategic issues aimed at advancing AI adoption across industries. I collaborated with stakeholders to identify key priorities, ensuring alignment with national goals for innovation, ethical AI use, and workforce development. This experience heightened my awareness of the profound opportunities and emerging threats that AI has already introduced and continues to shape, underscoring the critical need for strategic foresight.

2006-2009
System Automation Project Team Leader
Ethio Limat Company

As a SATL, I led a team of engineers & IT personnel to design and implement scalable automation solutions.

2006-2009
Cofounder and Manager
Tonetor Cyberbizz and Ever New Solutions (IT & Software Development Startups)
Addis Ababa, Ethiopia

EDUCATION

01-07-2017 – 23-06-2021
PhD in Computer Science and Technology (AI)
University of Electronic Science and Technology of China,
Chengdu, China

01-07-2011 – 16-07-2013
MSc Degree in Computer Science
Osmania University, Hyderabad, India

01-09-2007 – 08-07-2014
LLB Degree in Law
Unity University, Addis Ababa, Ethiopia

01-09-2003 – 08-07-2006
BSc Degree in Computer Science and Information Technology
Haremaya (Alemaya) University, Ethiopia

RESEARCH INTEREST

Computational Intelligence: Time series analysis, Natural Language Processing, Data Analytics, Data Mining, Text mining, Knowledge Extraction, Process Mining, Computer Vision, AI fairness, multidisciplinary research.

PROJECTS

- Intelligent Data-Driven Decisioning (Credit Scoring, Fraud Detection, Alternative Data Sourcing)
- Ethiopian National Artificial Intelligence Strategy Development
- An Artificial Intelligence Based Fake News Detection System and Resource Crafting for Low Resourced Languages, University of Electronic Science and Technology of China.
- A Computer Vision based item placement detector for UNILIVER at KFT.
- System Automation and Network Installation Project, Ethio Limat Company.
- Psychosocial Software Engineering (a blend of Psychology, Social Works and Software Engineering): A Five-Year PG training Project: Addis Ababa University

SCHOLARSHIPS AND AWARDSS

- China Government Scholarship (CSC): awarded a full PhD scholarship
- Indian Government Scholarship: MSc

SELECTED PUBLICATIONS

- Chala Bekabil, Fantahun Bogale. Enhancing Neural Machine Translation through Incorporation of Unsupervised Language Understanding and Generation Techniques: The Case of English-Afaan Oromo Translation. Journal of SN Computer Science (accepted for publication)
- Fantahun B. Gereme, and W. Zhu. Early Detection of Fake News "Before It Flies High" [C]. In Proceedings of the 2nd International Conference on Big Data Technologies (ICBDT2019) 2019: p. 142-148.
- Fantahun B. Gereme, and W. Zhu. Fighting fake news using deep learning: Pre-trained word embeddings and the embedding layer investigated [C]. 2020 The 3rd International Conference on Computational Intelligence and Intelligent Systems (CIIS 2020), 2020: p. 24-29.

- Fantahun B. Gereme, W. Zhu, Tewodros A. Ayall, Dagmawi M. Alemu. Combating Fake News in "Low-Resource" Languages: Amharic Fake News Detection Accompanied by Resource Crafting [J]. Information 2021, 2021. 12(1): p. 20.
- T Ayall, H Duan, C Liu, F.B. Gereme, M Deleli. OffStreamNG: Partial Stream Hybrid Graph Edge Partitioning Based on Neighborhood Expansion and Greedy Heuristic[C]. European Conference on Advances in Databases and Information Systems, 2020: p. 118-128
- T Ayall, H Duan, C Liu, F.B. Gereme, M Deleli. Taking Heuristic Based Graph Edge Partitioning One Step Ahead via OffStream Partitioning Approach. In 2021 IEEE 37th International Conference on Data Engineering (ICDE), 2020
- T Ayall, H Duan, C Liu, F.B. Gereme, M Deleli. Graph Computing Systems and Partitioning Techniques: A Survey," in IEEE Access, vol. 10, pp. 118523-118550, 2022, doi: 10.1109/ACCESS.2022.3219422.

BOOKS

- Fantahun Bogale Gereme, Fundamentals of Programming – I: A Handbook for Novices (2017), available at https://www.amazon.com/Fundamentals-Programming-I-Handbook-Novice/dp/3330068949

REFERENCES

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Natnael Aragaw (PhD)
  Assistant Professor of CS(AI), AAU, AAiT
  Chief AI & Technology Officer at Kifiya Financial Technologies
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