

Dawit Kiros Redie

Researcher

dawit.k.redie@gmail.com/@ntnu.no
linkedin.com/in/dawit-kiros/
github.com/Dawitkiros
Norway, Trondheim

Passionate and skilled Researcher with a strong background in Python and data structures. Proven ability to solve problems creatively and efficiently, with a focus on quality and attention to detail. Collaborative and team-oriented, with a belief that "two heads are better than one."

SKILLS

Programming Languages	Python, C++, Java, Scala
Soft skills	Communication, Leadership
Research Interests	Machine Learning, Privacy Preserving AI, Medical Image Processing

TECHNICAL EXPERIENCE

Ph. D. Researcher <i>NTNU: Norwegian University of Science and Technology</i>	December 2023 — Present Norway, Trondheim
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- Working on developing innovative privacy-preserving and personalized federated learning models.

Data Engineer Intern <i>Johnson Controls</i>	January 2023 — July 2023 India, Pune
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- Created a data loss detection system using Spring Boot framework, automating 12 hours of manual work.
- Reduced data processing time by 50% by transitioning spark jobs to PySpark.
- Engineered a synchronization system between Snowflake and PostgreSQL databases, ensuring seamless data flow.
- Developed a model to predict equipment failure based on historical data, reducing downtime and maintenance costs.

Teacher Assistant <i>KIIT University</i>	September 2022 — January 2023 India, Bhubaneswar
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- Assisted teachers in managing classroom behavior, leading to improved classroom discipline and reduced disruption.
- Facilitated instruction for individuals, groups, and entire classes.
- Led the design and delivery of an engaging curriculum on data structures in C++ and Python, equipping students with practical skills and deepening their understanding of complex concepts.

Research Intern <i>School of Electronics, KIIT University</i>	July 2020 — September 2020 India, Bhubaneswar
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- Acquired knowledge on various artificial intelligence concepts and their application in the power electronics field.
- Enhanced my understanding of integrating AI to optimize and innovate within this domain.

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EDUCATION

Ph. D. in Statistical Signal Processing and Machine Learning at Edge,

NTNU: Norwegian University of Science and Technology, Trondheim, Norway

December 2023 - Present

Master of Technology in Computer Science Engineering,

KIIT University, Bhubaneswar, India

August 2023

Bachelor of Technology in Electronics and Computer science Engineering,

KIIT University, Bhubaneswar, India

August 2021

PUBLICATIONS

1. Diagnosis of COVID-19 using chest X-ray images based on modified DarkCovidNet model.

*DK Redie, AE Sirko, TM Demissie, SS Teferi, VK Shrivastava, OP Verma,
Evolutionary Intelligence, 2022*

2. Oral cancer detection using transfer learning-based framework from histopathology images.

*DK Redie, S Bilgaiyan, S Sagnika
Journal of Electronic Imaging, 2023*

AWARDS/ACHIEVEMENTS

Ethiopian Betre-Science Government Scholarship

- Given to top-performing students in their first year at Ethiopian universities for study abroad opportunities.

August 2017
Ethiopia, Addis Ababa

KIIT Merit Scholarship

- Given to university Toppers per semester

February 2019 — July 2021
India, Bhubaneswar

VICE-CHANCELLOR'S SILVER MEDAL

- Awarded For Securing the highest CGPA in Electronics and Computer Science Engineering, Bachelor of Technology Program for the year 2021

August 2021
India, Bhubaneswar