

Mr. Samson Alemayehu | Master's in Communication Engineering and Networking | BSc in Computer Science | Research Scholar

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Mr. Samson Alemayehu is a Research Scholar in the Department of Computer Science and Engineering at Dayananda Sagar University, Bengaluru.

He holds a Master's degree in Communication Engineering and Networking and a Bachelor's degree in Computer Science. He has also pursued studies in Educational Planning and Management and Mathematics in Ethiopian Universities.

He has extensive academic and professional experience in communication engineering, computer networking, and higher education, having served as a Senior Lecturer at Hawassa University, Ethiopia. He has also completed professional certifications, including Cisco Networking (CCNA).

His research and publications span the areas of **wireless communication, antenna and RF systems, computer networking, Artificial Intelligence and Machine Learning, O-RAN networking, and intelligent network optimization**, with an interdisciplinary focus on applying computational intelligence to communication and networked systems. His research interests also include **Explainable AI (XAI)** and the application of AI and intelligent technologies in higher education.

His current doctoral research focuses on “**A Machine Learning-Assisted Analytic Hierarchy Process Framework for Energy-Efficient Cell Breathing and Load Balancing in O-RAN.**” The research explores the use of machine learning and interpretable multi-criteria decision-making to support adaptive and energy-efficient network management in Open Radio Access Networks.

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