

**Date of birth:** 13/11/1992 | **Nationality:** Sierra Leonean | **Gender:** Male | (+250) 783899635 | [yusufbrima@gmail.com](mailto:yusufbrima@gmail.com) | <https://yusufbrima.github.io/> | <https://www.linkedin.com/in/yusufbrima/> | [https://twitter.com/\\_yusufbrima](https://twitter.com/_yusufbrima) |

04 Helma Kono Jaiama Nimikoro, 232, Koidu, Sierra Leone

## ● EDUCATION AND TRAINING

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01/07/2018 – 28/08/2020 – Department of Computer Science and Engineering Science Complex University of Dhaka, Dhaka – 1000, Dhaka, Bangladesh

**MASTER OF SCIENCE IN COMPUTER SCIENCE AND ENGINEERING** – University of Dhaka

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<https://www.cse.du.ac.bd/>

03/09/2012 – 03/02/2017 – Azzolini Highway, Makeni, Sierra Leone

**BACHELOR OF SCIENCE IN COMPUTER SCIENCE** – University of Makeni

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<http://unimak.edu.sl/>

01/08/2020 – 09/07/2021 – AIMS Centre Remera Kigali, Kigali, Rwanda

**MASTER OF SCIENCE IN MATHEMATICAL SCIENCES** – African Institute for Mathematical Sciences (AIMS)

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<https://aims.ac.rw/>

## ● WORK EXPERIENCE

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01/02/2018 – 31/07/2018 – Freetown, Sierra Leone

**LECTURER** – LIMKOKWING UNIVERSITY OF CREATIVE TECHNOLOGY

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*Taught undergraduate Computer Science courses in Principles of Programming Languages and Introduction to Computing*

01/03/2017 – 31/07/2018 – Makeni, Sierra Leone

**COLLEGE REGISTRAR** – AFRICAN ACCENTS INTERNATIONAL INSTITUTE OF COMPUTER TECHNOLOGY

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*Provided oversight of enrolment, retention and transfer of students in and out of the institution, co-ordinated with the Finance and Exams Officers in managing operations of the Institution, directed and coordinated college registration activities by consulting with other officials to devise registration schedules and procedures, analyzed statistical data on registration for administrative use in formulating policies, directed the preparation of statistical reports on educational activities for government and educational agencies and interprets registration policies to faculty and students. Directed compilation of information, such as class schedules and graduation requirements, for publication in school bulletins and catalogues.*

01/03/2017 – 31/07/2018 – Makeni, Sierra Leone

**RESEARCH TEACHING ASSISTANT** – UNIVERSITY OF MAKENI

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*Taught undergraduate Computer Science courses in Principles of Programming Languages, Introduction to Computing, Web Programming, Relational Database Systems theory and practice. Conducted research into emerging technologies and their socio-economic ramifications on the varied dimensions of human civilization. Supervised final year students in their project and thesis development process(es).*

## ● LANGUAGE SKILLS

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Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C2	C2	C2	C2	C2
<b>FRENCH</b>	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## ● PROJECTS

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12/2019 – 03/2020

**Deep Transfer Learning for Multi-class Brain MRI Classification, MSc Thesis**

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In this research, we adopted a Deep Residual Convolutional Neural Network (ResNet50) architecture for the experiments amongst other discriminative learning techniques to train the model. Using the novel dataset and two publicly available MRI brain datasets, this proposed approach attained a classification accuracy of 86.40% on the proposed dataset, 93.80% on the Harvard Whole Brain Atlas, and 97.05% accuracy on the School of Biomedical Engineering dataset. Our experimental results significantly demonstrate our proposed framework for Transfer Learning is a potential and effective approach for brain tumor multi- classification tasks. The paper is in submission to the IEEE/ACM Transactions on Computational Biology and Bioinformatics journal.

09/2016 – 02/2017

**Automated Recruitment System, BSc. Final year project**

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Career placement and recommendation engine is written in PHP as the Server-Side Scripting Language; Hyper Text Markup Language 5, JavaScript, JQuery and its ancillary dependencies, Twitter Bootstrap Framework, CSS 3.0, Asynchronous JavaScript and XML, Google Data Visualization Library as the client-side scripting technologies and Apache as the Webserver from the Apache Foundation.

## ● VOLUNTEERING

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01/04/2015 – 30/06/2017

**Acting Head of Department (Information Technology Department), Destiny College of Management Theology and Technology**

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Makeni

Leadership and Management: responsible and accountable for setting and advancing the academic strategy of the Department in line with the Institution's strategic plans and direction, developed and sustained appropriate structures for management, consultation, decision-making and communication with staff and students, promoted and represented the Institution both internally and externally, Knowledge Transfer: created and exploited new opportunities for knowledge transfer activity in order to secure additional income streams and new areas of teaching and/or research.

01/02/2017 – CURRENT

**Deputy Director of academic affairs, African Accents International Institute (AAII)**

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Makeni

Operationalised student enrollment, management and transfer procedures, Developed and controlled student record management system, produced a bi-annual report on: Student mobility in and out of the Institution; rate of enrolment, retention, and migration of students, Student-led evaluation of teaching staff including action-oriented recommendations, coordinated class schedules with room assignments for optimum use of buildings and equipment, prepared student transcripts, certificates amongst other academic-related documents.

## ● **ADDITIONAL EDUCATION**

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08/2020 – 08/2020

**Oxford Machine Learning Summer School, UK**

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Bayesian ML, Computer Vision, Natural Language Processing, Reinforcement Learning, Causal ML, Topological ML, and Transfer Learning.

08/2020 – 08/2020

**Machine Learning Summer School-INDO, Indonesia**

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Machine Learning Fundamentals, TensorFlow, Convolutional Neural Network, Advanced Topics in Equivariance and Inductive Biases, Bayesian Machine Learning, Information Theoretic Objectives, and Robust Generalization, Computational Morphology, Reinforcement Learning, Probabilistic Generative Models, VAEs and Flows, Deep Learning for NLP, Graph Neural Nets, Transfer Learning for NLP, Multilingual NLP, Super-resolution and its Application to Computer Vision Tasks.

05/2020 – 06/2020

**Imperial College London, UK**

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Linear Algebra, Multivariate Calculus, and Principal Component Analysis.

09/2020 – 09/2020

**MathWorks Training Service, MOOC**

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Deep Learning for Image Recognition.  
Using Pre-trained Networks, Managing Collections of Data, and Performing Transfer Learning.

09/2020 – 10/2020

**LinkedIn Learning, MOOC**

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Introduction to Machine Learning: Supervised, Semi-supervised, Unsupervised and Reinforcement Learning, popular Machine Learning Algorithms (K Nearest Neighbor, Decision Tree, K-mean Clustering, Regression, Naive Bayes).

10/2016 – 10/2016

**On-Campus Internship Programme (OCIP), University of Makeni, Sierra Leone**

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Installation and configuration of software, computer networking, troubleshooting, and maintenance.

## ● **CONFERENCES AND SEMINARS**

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06/2018 – 07/2018 – UNESCO-ICHEI, China

**Seminar on ICT in Higher Education Innovation for African Countries,**

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Attained knowledge in the role of informatization of higher education to improve learning outcomes. The seminar entailed hands-on training in Big Data management with Apache Spark and predictive analytics with Machine Learning techniques to improve learning outcomes.

06/2015 – 07/2015 – University of Makeni, Sierra Leone

**Academic Research on the Web**

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Gained knowledge on carrying out academic research on the web: search engine usage techniques, finding suitable journals, workshops, conferences for research publication, bibliography management, attribution, blogging amongst other things.

## ● SOCIAL AND POLITICAL ACTIVITIES

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01/09/2014 – 30/06/2015

**Student President (University of Makeni Computer Science Society)**

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Makeni, Sierra Leone

Provided executive leadership into student affairs and activities including: STEM outreach, computer science education communication through radio and television programmes, debates and public lectures and industry tour.

01/09/2013 – 30/06/2014

**Student Vice President (University of Makeni Computer Science Society)**

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Makeni, Sierra Leone

Provided executive leadership into student affairs and activities ranging from representation in seminars, workshops, and conferences to extracurricular activities.

## ● DIGITAL SKILLS

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Scientific programming in Python | Latex Software | C, C++ Programming | Machine Learning and Deep Learning frameworks: Tensorflow, Keras, PyTorch | Data Science, Data Analytics, Data Visualization | SQL/MYSQL | GIT (GitHub) | Python libraries (NumPy, Pandas, Keras, SciKit-Learn, TensorFlow, Matplotlib, Seaborn) | Web Development: HTML 5, CSS, JavaScript | Climate Data Operators | NetCDF Operators | Microsoft Office

## ● HONOURS AND AWARDS

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01/08/2020

**African Institute of Mathematical Sciences (AIMS) Fellowship – Mastercard Foundation Scholarship**

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01/07/2018

**Queen Elizabeth Commonwealth Fellowship For Low-and-Middle-Income Countries – The Association of Commonwealth Universities (ACU)**

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01/09/2013

**Undergraduate Scholarship National Merit – Government of Sierra Leone**

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## ● NETWORKS AND MEMBERSHIPS

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02/02/2019 – CURRENT

**IEEE Student Member**

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28/08/2020 – CURRENT

**The Association of Commonwealth Universities Alumni**

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02/07/2017 – CURRENT

**University of Dhaka Computer Science and Engineering Society**

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Bangladesh

02/09/2012 – CURRENT

**University of Makeni Computer Science Society**

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Sierra Leone

## ● RECOMMENDATIONS

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Professor Mosaddek Hossain Kamal – Thesis Supervisor – [tushar@cse.du.ac.bd](mailto:tushar@cse.du.ac.bd)

Professor of Computer Science, and Engineering, University of Dhaka.

Dr. Marcellin Atemkeng – Thesis Supervisor – [m.atemkeng@ru.ac.za](mailto:m.atemkeng@ru.ac.za)

Lecturer: Applied Mathematics and Machine Learning; Coordinator: Rhodes AI Research Group (RAIRG); Rhodes University, South Africa.

Professor Upama Kabir – Thesis Co-supervisor – [upama@cse.du.ac.bd](mailto:upama@cse.du.ac.bd)

Professor of Computer Science, and Engineering, University of Dhaka.

Lakshamana Namamula Rao – Former Head of Department – [lakshmanarao@ipam.edu.sl](mailto:lakshmanarao@ipam.edu.sl)

Lecturer, Institute of Public Administration, and Management (IPAM), Sierra Leone.