



# Michael ADJEISAH

Ph.D. | Machine Learning, Deep Learning & NLP

## Personal Information

Birthday: 1988-03-05  
Nationality: Ghanaian  
Language: English (official)  
Mandarin: (Intermediate)

## Contact

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## Programming Langs.

- Python (expert)
- Linux (expert)
- HTML5 & CSS3 (expert)
- Java (proficient)
- SQL (proficient)
- JavaScript (proficient)
- C++ (prior experience)

## Designing Software

- CorelDraw (expert)
- Photoshop (expert)
- Dreamweaver (proficient)
- Illustrator (proficient)

## Career objective

To succeed in an environment of growth and excellence: earn a job that provides job satisfaction and self-development to achieve personal and organizational goals.

## Education

Sep 2016 – Mar 2021

**PhD.** Computer Science  
Enterprise Information System & Eng.

Donghua University  
Shanghai – China

Feb – Jun 2017

**Certificate** of Completion  
Relevant Courses:

- Machine Learning
- Advance Computer Vision
- Advance NLP

Udemy Online Training

Sep 2013 – Jul 2016

**MSc.** Computer Science  
Computer Applied Technology

Lanzhou University,  
Lanzhou – China

Aug 2014 – Jun 2015

**Certificate** of Completion  
Relevant Courses:

- Java Advanced Training
- C++ Essential Training
- Object Oriented Programming
- Leadership Fundamentals
- Project Management

Lynda.com Online  
Training

Sep 2012 – Jul 2013

**Mandarin-HSK 4 Certificate**

Lanzhou University,  
Lanzhou – China

Sep 2007– Jul 2011

**Bachelor** of Education

University of Education,  
Winneba – Ghana

## Skills

### Technical Specialties

- Deep understanding of machine learning and application to all domains.
- Experience with feature engineering, transfer learning, regression, classification.
- Familiar with open-source deep learning frameworks (Tensorflow, Pytorch, Theano, Keras).
- Good hands with the trends in the domain of deep learning (GoogLeNet, VGG, ResNet).
- Comprehensive understanding of object detection frameworks (Faster R-CNN, SSD and YOLO).
- Expertise in NLP Applications (QA, Word Segmentation, Phrase Extraction, Relationship Extraction, Entity Recognition, Dialogue, Automatic Summarization).
- Familiar with commonly used deep learning algorithms and models, such as CNN, LSTM, GNN Transformer, and OpenAI.
- Expertise in Data Visualization in Python.

### Soft Skills

- Good communication and presentation skills.
- Problem solving, teamwork and leadership.

### Personal Abilities

I am highly energetic, having good interpersonal relationship and communication skills, ability to work for longer hours with less or no supervision. Also adherence to programming and testing standards, accuracy and creativity in finding efficient solutions to given requirements.

## Experience

Sep 2021 – Present	<b>Zhejiang Normal University</b> - Post-doctoral Fellow <span>Jinhua - China</span> <ul style="list-style-type: none"><li>Analyze, interpret, and document research findings for review.</li><li>Compare actual and expected results and suggest solutions to correct the deviations.</li><li>Evaluate existing research or modeling techniques and recommend improvements to ensure quality and productivity.</li><li>Assist in the preparation of proposals and reports.</li></ul> <p><i>Project – Graph Data Augmentation (GDA) Evaluation-based Framework</i></p> <ul style="list-style-type: none"><li>A framework to evaluate the current state-of-the-art GDA algorithms based on three most widely used GNN backbones (GCN, GAT and GraphSAGE).</li><li>Findings of this work is published in the journal of Computer Science Review.</li></ul> <p><i>Project – SCMvL: Search-based Contrastive Multi-View Learning for Graph Classification</i></p> <ul style="list-style-type: none"><li>Composed a SCMvL by engaging a pre-training framework using contrastive learning.</li><li>The approach collectively searches for the best augmentation pair to learn a particular dataset's intrinsic and transferable structural representations.</li><li>Findings of this work is submitted to ACM-The Web Conference (TheWebConf 2023) and the Journal of Knowledge-Based Systems.</li></ul>
Oct 2015 – Jan 2016	<b>AppInChina</b> - <a href="http://www.appinchina.co">www.appinchina.co</a> <span>Beijing - China</span> <p>Front-end Developer Intern</p> <ul style="list-style-type: none"><li>Worked closely with the Back End developer to implement the company's website, ensuring strong optimization and functionality</li><li>Monitor browser technical performance and web server</li><li>Worked on projects including web layout enhancements, website enhancements, and database-backup websites</li></ul>
Oct 2011 – Jul 2012	<b>Suhum Senior High Technical</b> <span>Suhum, Eastern - Ghana</span> <p>National Service Personnel (Graphic Design Instructor)</p> <ul style="list-style-type: none"><li>Planned daily and weekly lessons according to the curriculum</li><li>Made engaging lessons that develop students' critical thinking and problem-solving skills.</li><li>Communicated designing concepts, checked student notebooks, and marked their progress regularly.</li><li>Examination supervision and assessment of students.</li></ul>

## Interests

**Professional:** data science, machine learning, NLP, CV, software design and implementation, web design, and graphic design.

**Personal:** computing, singing, reading, listening to inspirational and motivational materials.

## Publication(s)

### Under review

- Tewodros Ayall, Huawei Liu, Changjun Zhou, Mohammed Abegaz, Nahom Hayla, and **Michael Adjeisah**, "Cooperative Window based Edge Partitioning via Edges subtraction and Postponement," Under revision in the Journal of Computers and Electrical Engineering.
- **Michael Adjeisah**, Xinzhong Zhu, Huiying Xu, and Tewodros Ayall, "Graph Contrastive Multiview Learning: A Pre-Training Framework for Graph Classification," Submitted to the Journal of Knowledge-Based Systems.
- **Michael Adjeisah**, Xinzhong Zhu, Huiying Xu, and Tewodros Ayall, "SCMvL: A Search-based Contrastive Multi-View Learning for Graph Classification," Submitted to ACM-The Web Conference (TheWebConf 2023).

### Journal(s)

- **Michael Adjeisah**, Xinzhong Zhu, Huiying Xu, and Tewodros Ayall, "Towards Data Augmentation in Graph Neural Network: An Overview and Evaluation," *Accepted in Computer Science Review*, Nov. 2022, (SCI).
- M. Kamyab, G. Liu, A. Rasool, and **Michael Adjeisah**, "ACR-SA: attention-based deep model through two-channel CNN and Bi-RNN for sentiment analysis." *PeerJ Comput. Sci.*, vol. 8, p. e877, 2022, (SCI).
- M. Kamyab, G. Liu, and **Michael Adjeisah**, "Attention-Based CNN and Bi-LSTM Model Based on TF-IDF and GloVe Word Embedding for Sentiment Analysis," *Appl. Sci.*, vol. 11, no. 23, Dec. 2021, (SCI).
- D. O. Nyabuga, J. Song, G. Liu, and **Michael Adjeisah**, "A 3D-2D Convolutional Neural Network and Transfer Learning for Hyperspectral Image Classification," *Journal of Computational Intelligence and Neuroscience*, vol. 2021, pp. 1–19, Aug. 2021, (SCI).
- **Michael Adjeisah**, G. Liu, R. N. Nortey, and J. Song, "Pseudo Text Injection and Advance Filtering Low-resource Corpus for Neural Machine Translation," *Journal of Computational Intelligence and Neuroscience*, vol. 2021, pp. 1–10, Apr. 2021, (SCI).
- Raji, R., **Michael Adjeisah**, Miao, X. and Wan, A. "A Novel Respiration Pattern Biometric Prediction System based on Artificial Neural Network," *Sensor Review*, vol. 40, no. 1, pp. 8–16, Feb. 2020, (SCI).
- **Michael Adjeisah**, G. Liu, R. N. Nortey, and J. Song, "English↔Twi Parallel-Aligned Bible Corpus for Encoder-Decoder based Machine Translation," *Academia Journal of Scientific Research*, vol.8, no. 12, pp. 371–382.
- Li Yue, Richard N.N., **Michael Adjeisah**, Promise R. A., Xinyi Lui, "Blockchain-Enabled Privacy Security Module for Sharing Electronic Health Records (EHRs)," *International Journal of Computer and Communication Engineering*, Volume 8, Number 4, 2019. pp155-168

### Conference(s)

- **Michael Adjeisah**, G. Liu, R. N. Nortey, J. Song, K. O. Lamptey and F. N. Frimpong, "Twi Corpus: A Massively Twi-to-Handful Languages Parallel Bible Corpus," 2020 IEEE Intl Conf on Parallel & Distributed Processing with Applications, Big Data & Cloud Computing, Sustainable Computing & Communications, Social Computing & Networking (ISPA/BDCloud/SocialCom/SustainCom), pp. 1043–1049.
- **Michael Adjeisah**, G. Liu, Nyabuga D. O., and Nortey R. N., "Multi-Sensor Information Fusion and Machine Learning for High Accuracy Rate of Mechanical Pedometer in Human Activity Recognition," 2019 IEEE Intl Conf on Parallel & Distributed Processing with Applications, Big Data & Cloud Computing, Sustainable Computing & Communications, Social Computing & Networking (ISPA/BDCloud/SocialCom/SustainCom), 2019, pp. 1064–1070.
- Kaleem Kashif, Yizhi Wu, Junjie Zhang, and **Michael Adjeisah**, "Consonant Phoneme based Extreme Learning Machine (ELM) Recognition model for Foreign Accent Identification," *Proceedings of the World Symposium on Software Engineering (WSSE 2019)*, Wuhan, 2019. pp. 68–72.
- Richard N.N., Li Y., Promise R. A., and **Michael Adjeisah**, "Privacy Module for Distributed Electronic Health Records (EHRs) using the Blockchain," 2019 IEEE 4th International Conference on Big Data Analysis (ICBDA 2019), Suzhou, China.
- **Michael Adjeisah**, Z. Chen, G. Liu, and Y. Yi, "A New Approach for Tracking Human Body Movements by the Kinect Sensor," 4th International Conference on Smart and Sustainable City (ICSSC 2017), Shanghai, China.
- **Michael Adjeisah**, Yi Yang, and Lian Li, "Joint Filtering: Enhancing Gesture and Mouse Movement in Microsoft Kinect Application," 2015 12th International Conference on Fuzzy Systems and Knowledge Discovery (FSKD), Zhangjiajie, 2015.