Grace U. Nneji

Associate Professor

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Summary

Dr. Grace is an Associate Professor at School of International Education, Chengdu University of Technology Oxford Brookes College. Research background is primarily on machine learning and deep learning, with specific applications in medical image analysis and agriculture informatics. Focuses on explainable AI and also on enhancing low-quality images with the goal of increasing the efficiency of AI model for accurate decision making which could assist professionals in different domains especially in the field of healthcare. Publish more than 73 papers with over 605 citations and h-index 15 as reported by Google Scholar and 33 verified peer reviews also reported by Web of Science. Received best paper award and oral presentation, academic achievement award, excellent performance award, best student award, Chinese Government Scholarship, and UESTC outstanding student award. My work has received three Best Paper Awards (PRAI21, and ICAIT24), and one Best Oral Presentation Award (ICAIT24). (*Personal Web-page*)

Education

2022: **Ph.D., Software Engineering**, *University of Electronic Science & Technology of China*, China.
Medical image processing, Deep learning, Machine learning, Computer vision, Data analysis, AI-based disease diagnosis.

Dissertation: Identification Based on Low Quality Medical Images Using Deep Learning.

CGPA : **4.0/4.0**

2019: **M.Eng., Software Engineering**, *University of Electronic Science & Technology of China*, China.
Data acquisition and analysis, data processing, vehicle image recognition, Image segmentation.

Thesis: Vehicle Image Recognition Using Deep Learning.

CGPA : **3.94/4.0**

2014: **B.Tech., Computer Science**, *Federal university of Technology, Owerri*, Nigeria.
Web-based Application for E-Tourism System, E-clearance management system for Graduating Students in a University Environment, Attendance Management System using Biometrics System, Android-Based Information System for Marriage Counseling.

Thesis: Web-based Application For E-Tourism System in Nigeria.

CGPA : **3.98/5.0**

Publications

Selected Journal Articles

2025 **Grace Ugochi Nneji**, Happy Nkanta Monday, Venkat Subramanyam Reddy Pathapati, Saifun Nahar, Goodness Temofe Mgbejime, Edwin Sunday Umana, and Md Altab Hossin. Ffs-iml: fusion-based statistical feature selection for machine learning-driven interpretability of chronic kidney disease. *International Journal of Machine Learning and Cybernetics*, pages 1–34. Springer, 2025, **(Impact Factor:3.1)**.

2025 Happy Nkanta Monday, **Grace Ugochi Nneji** Nneji, Md Altab Hossin, Kelvin Davies Mark, Edwin Sunday Umana, Goodness Temofe Mgbejime, and Jianping Li. Enhancing ecg classification in cardiac diagnostics: A novel approach using adaptive focal cross-entropy loss function. *IEEE Journal of Biomedical and Health Informatics*, pages 1–17, 2025, **(Impact Factor:6.7)**.

2024 Chiagoziem C Ukwuoma, Dongsheng Cai, Olusola Bamisile, Hongbo Yin, **Grace Ugochi Nneji**, Happy N Monday, Ariyo Oluwasanmi, and Qi Huang. An attention fused sequence-to-sequence convolutional neural network for accurate solar irradiance forecasting and prediction using sky images. *Renewable Energy*, volume 237, page 121692. Elsevier, 2024, **(Impact Factor:9.0)**.

2024 Chukwuebuka Joseph Ejiyi, Zhen Qin, Chiagoziem Chima Ukwuoma, **Grace Ugochi Nneji**, Happy Nkanta Monday, Makuachukwu Bennedith Ejiyi, Thomas Ugochukwu Ejiyi, Uchenna Okechukwu, and Olusola O Bamisile. Comparative performance analysis of boruta, shap, and borutashap for disease diagnosis: a study with multiple machine learning algorithms. *Network: Computation in Neural Systems*, pages 1–38. Taylor & Francis, 2024, **(Impact Factor:1.1)**.

2024 Chukwuebuka Joseph Ejiyi, Zhen Qin, Chiagoziem Chima Ukwuoma, **Grace Ugochi Nneji**, Happy Nkanta Monday, Makuachukwu Bennedith Ejiyi, Ijeoma Amuche Chikwendu, and Ariyo Oluwasanmi. Improved deep neural network (enhancenet) for real-time detection of some publicly prohibited items. *Network: Computation in Neural Systems*, pages 1–28. Taylor & Francis, 2024, **(Impact Factor:1.1)**.

2024 Chukwuebuka Joseph Ejiyi, Zhen Qin, **Grace Ugochi Nneji**, Happy Nkanta Monday, Victor K Agbesi, Makuachukwu Bennedith Ejiyi, Thomas Ugochukwu Ejiyi, and Olusola O Bamisile. Enhanced cardiovascular disease prediction modelling using machine learning techniques: a focus on cardiovitalnet. *Network: Computation in Neural Systems*, pages 1–33. Taylor & Francis, 2024, **(Impact Factor:1.1)**.

2023 **Grace Ugochi Nneji**, Happy Nkanta Monday, Goodness Temofe Mgbejime, Venkat Subramanyam R Pathapati, Saifun Nahar, and Chiagoziem Chima Ukwuoma. Lightweight separable convolution network for breast cancer histopathological identification. *Diagnostics*, volume 13, page 299. MDPI, 2023, **(Impact Factor:3.0)**.

2023 Chukwuebuka Ejiyi, Zhen Qin, Makuachukwu Bennedith Ejiyi, **Grace Ugochi Nneji**, Happy Nkanta Monday, Favour Amarachi Agu, Thomas Ugochukwu Ejiyi, Chidinma Diokpo, and Chiduzie Obed Orakwue. The internet of medical things in healthcare management: a review. *Journal of Digital Health*, pages 30–62, 2023, **(Impact Factor:2.9)**.

2022 Chiagoziem Chima Ukwuoma, Zhiguang Qin, Sophyani B. Yussif, Monday N. Happy, **Grace Ugochi Nneji**, Gilbert C. Urama, Chibueze D. Ukwuoma, Nimo B. Darkwa, and Harriet Agobah. Animal species detection and classification framework based on modified multi-scale attention mechanism and feature pyramid network. ***Scientific African***, volume 16, page e01151. Elsevier, 2022, **(Impact Factor:2.7)**.

2022 Chiagoziem C Ukwuoma, Zhiguang Qin, Md Belal Bin Heyat, Faijan Akhtar, Abla Smahi, Jehoiada K Jackson, Syed Furqan Qadri, Abdullah Y Muaad, Happy N Monday, and **Grace Ugochi Nneji**. Automated lung-related pneumonia and covid-19 detection based on novel feature extraction framework and vision transformer approaches using chest x-ray images. *Bioengineering*, volume 9, page 709. MDPI, 2022, **(Impact Factor:3.8)**.

2022 Chiagoziem C Ukwuoma, Md Altab Hossain, Jehoiada K Jackson, **Grace Ugochi Nneji**, Happy N Monday, and Zhiguang Qin. Multi-classification of breast cancer lesions in histopathological images using deep_pachi: Multiple self-attention head. *Diagnostics*, volume 12, page 1152. MDPI, 2022, **(Impact Factor:3.0)**.

2022 **Grace Ugochi Nneji**, Jianhua Deng, Happy Nkanta Monday, Md Altab Hossin, Sandra Obiora, Saifun Nahar, and Jingye Cai. Covid-19 identification from low-quality computed tomography using a modified enhanced super-resolution generative adversarial network plus and siamese capsule network. ***Healthcare***, volume 10, pages pp403–423. MDPI, 2022, **(Impact Factor:2.4)**.

2022 **Grace Ugochi Nneji**, Jingye Cai, Happy Nkanta Monday, Md Altab Hossin, Saifun Nahar, Goodness Temofe Mgbejime, and Jianhua Deng. Fine-tuned siamese network with modified enhanced super-resolution gan plus based on low-quality chest x-ray images for covid-19 identification. ***Diagnostics***, volume 12, pages 717–743. MDPI, 2022, **(Impact Factor:3.0)**.

2022 **Grace Ugochi Nneji**, Jingye Cai, Jianhua Deng, Happy Nkanta Monday, Edidiong Christopher James, and Chiagoziem Chima Ukwuoma. Multi-channel based image processing scheme for pneumonia identification. ***Diagnostics***, volume 12, pages 325–351. MDPI, 2022, **(Impact Factor:3.00)**.

2022 **Grace Ugochi Nneji**, Jingye Cai, Jianhua Deng, Happy Nkanta Monday, Md Altab Hossin, and Saifun Nahar. Identification of diabetic retinopathy using weighted fusion deep learning based on dual-channel fundus scans. ***Diagnostics***, volume 12, pages 540–559. MDPI, 2022, **(Impact Factor:3.0)**.

2022 Happy Nkanta Monday, Jianping Li, **Grace Ugochi Nneji**, Saifun Nahar, Md Altab Hossin, Jehoiada Jackson, and Ariyo Oluwasanmi. A wavelet convolutional capsule network with modified super resolution generative adversarial network for fault diagnosis and classification. *Complex & Intelligent Systems*, volume 8, pages 4831–4847. Springer, 2022, **(Impact Factor:4.927)**.

2022 Happy Nkanta Monday, Jianping Li, **Grace Ugochi Nneji**, Saifun Nahar, Md Altab Hossin, Jehoiada Jackson, and Chukwuebuka Joseph Ejiyi. Covid-19 diagnosis from chest x-ray images using a robust multi-resolution analysis siamese neural network with super-resolution convolutional neural network. ***Diagnostics***, volume 12, pages 741–766. MDPI, 2022, **(Impact Factor:3.706)**.

2022 Happy Nkanta Monday, Jianping Li, **Grace Ugochi Nneji**, Saifun Nahar, Md Altab Hossin, and Jehoiada Jackson. Covid-19 pneumonia classification based on neurowavelet capsule network. ***Healthcare***, volume 10, pages 422–441. MDPI, 2022, **(Impact Factor:2.4)**.

2022 Happy Nkanta Monday, Jianping Li, **Grace Ugochi Nneji**, Md Altab Hossin, Saifun Nahar, Jehoiada Jackson, and Ijeoma Amuche Chikwendu. Wmr-depthwisenet: A wavelet multi-resolution depthwise separable convolutional neural network for covid-19 diagnosis. ***Diagnostics***, volume 12, pages 765–788. MDPI, 2022, **(Impact Factor:3.0)**.

2022 Goodness Temofe Mgbejime, Md Altab Hossin, **Grace Ugochi Nneji**, Happy Nkanta Monday, and Favour Ekong. Parallelistic convolution neural network approach for brain tumor diagnosis. *Diagnostics*, volume 12, page 2484. MDPI, 2022, **(Impact Factor:3.0)**.

2022 Chukwuebuka Joseph Ejiyi, Zhen Qin, Abdulhaq Adetunji Salako, Monday Nkanta Happy, **Grace Ugochi Nneji**, Chiagoziem Chima Ukwuoma, Ijeoma Amuche Chikwendu, and Ji Gen. Comparative analysis of building insurance prediction using some machine learning algorithms. ***International Journal of Interactive Multimedia & Artificial Intelligence***, volume 7. Universidad International de La Rioja (UNIR), 2022, **(Impact Factor:3.137)**.

2022 Bless Lord Y Agbley, Jianping Li, Md Altab Hossin, **Nneji Grace Ugochi**, Jehoiada Jackson, Happy Nkanta Monday, and Edidiong Christopher James. Federated learning-based detection of invasive carcinoma of no special type with histopathological images. *Diagnostics*, volume 12, page 1669. MDPI, 2022.

2022 Daniel Addo, Shijie Zhou, Jehoiada Kofi Jackson, **Grace Ugochi Nneji**, Happy Nkanta Monday, Kwabena Sarpong, Rutherford Agbeshi Patamia, Favour Ekong, and Christyn Akosua Owusu-Agyei. Evae-net: An ensemble variational autoencoder deep learning network for covid-19 classification based on chest x-ray images. *Diagnostics*, volume 12, page 2569. MDPI, 2022, **(Impact Factor:3.0)**.

Under Review Journal Article

2025 **Grace Ugochi Nneji, Happy Nkanta Monday and Edwin Sunday Umana**, Predicting Customer Attrition in Financial Banking using Hybrid Metaheuristic-based and Optimization Machine Learning Techniques, In *Expert System and Applications*, **(Impact Factor: 7.5)**.

2025 **Grace Ugochi Nneji, Happy Nkanta Monday, Richard Iherorochi Nneji, Gladys Chinyere Olumba, Peace Nkanta Umoh, Edwin Sunday Umana**, FusionSelectSHAP for Post-Myocardial Infarction Angina Prediction and Explainability, In *Computer in Biology and Medicine*, **(Impact Factor: 7.0)**.

2025 **Xudong Li, Yutong Wang, Happy Nkanta Monday, Grace Ugochi Nneji**, A Novel Residual Learning of Multi-Scale Feature Extraction Model for the Classification of Rice Grain Varieties, In *Computers and Electronics in Agriculture*, **(Impact Factor: 7.7)**.

2025 **Happy Nkanta Monday, Grace Ugochi Nneji, Edwin Sunday Umana, and Goodness Temofe Mgbejime**, Enhancing ECG Classification in Cardiac Diagnostics: A Novel Approach Using Adaptive Focal Cross-Entropy Loss Function, In *IEEE Journal of Biomedical and Health Informatics*,**(Impact Factor: 6.7)**.

2025 **Grace Ugochi Nneji, Happy Nkanta Monday, Richard Iherorochi Nneji, Gladys Chinyere Olumba, Peace Nkanta Umoh, Edwin Sunday Umana**, Explainable AI for Chronic Kidney Disease: A Novel Principal Factor Discriminant Analysis Approach for Feature Selection and Prediction, In *Network Modeling Analysis in Health Informatics and Bioinformatics, Elsevier*,**(Impact Factor: 2.0)**.

2025 **Grace Ugochi Nneji, Happy Nkanta Monday, Richard Iherorochi Nneji, Gladys Chinyere Olumba, Peace Nkanta Umoh, Edwin Sunday Umana**, Explainable Financial Churn Prediction using SHAP-Driven FusionBoost-MetaTuneML, In *Annal of Operation Research, Springer*,**(Impact Factor: 4.4)**.

Selected Conference Proceedings

2024 Keliang Wu, Jincheng Peng, Xiang Feng, Zixuan Chen, and **Nneji Grace Ugochi**. Attention-enhanced ensemble learning for diabetic retinopathy classification with interpretability. In *2024 IEEE 16th International Conference on Advanced Infocomm Technology (ICAIT)*, pages 228–233. IEEE, 2024.

2024 Yaoqing Wang, Chang Yu, Xiyue Lin, Goodness Temofe Mgbejime, and **Nneji Grace Ugochi**. Leveraging ensemble deep learning model for fruit image recognition with explainable ai. In *2024 5th International Conference on Big Data & Artificial Intelligence & Software Engineering (ICBASE)*, pages 195–199. IEEE, 2024.

2024 Jiexuan Shen, Shi Li, Li Xinglin, Yong Wang, and **Nneji Grace Ugochi**. Explainable ai for the prediction and estimation of obesity levels using machine learning models. In *2024 4th International Conference on Electronic Information Engineering and Computer Science (EIECS)*, pages 709–713. IEEE, 2024.

2024 Goodness Temofe Mgbejime, Yaoqing Wang, Chang Yu, Xiyue Lin, and **Nneji Grace Ugochi**. Rice grain classification using attention-based ensemble learning model with explainable ai. In *2024 4th International Conference on Electronic Information Engineering and Computer Science (EIECS)*, pages 937–940. IEEE, 2024.

2024 Xinglin Li, Yong Wang, Jiexuan Shen, Shi Li, and **Nneji Grace Ugochi**. Ensemble learning approach for car and tank image identification with explainable ai. In *2024 5th International Conference on Big Data & Artificial Intelligence & Software Engineering (ICBASE)*, pages 200–203. IEEE, 2024.

2024 Xiang Feng, Zixuan Chen, Keliang Wu, Jincheng Peng, and **Nneji Grace Ugochi**. Dual convolutional neural network with explainability attention mechanism for diabetic retinopathy classification. In *2024 7th International Conference on Pattern Recognition and Artificial Intelligence (PRAI)*, pages 596–601. IEEE, 2024.

2024 Zixuan Chen, Keliang Wu, Xiang Feng, **Nneji Grace Ugochi**, Happy Nkanta Monday, and Jincheng Peng. Enhancing brain tumor diagnosis: A cutting-edge ensemble deep learning approach. In *Proceedings of the 2024 8th International Conference on Algorithms, Computing and Systems*, pages 43–49, 2024.

2021 **Grace Ugochi Nneji**, Jingye Cai, Deng Jianhua, Chukwuebuka Joseph Ejiyi, Edidiong Christopher James, Goodness Temofe Mgbejime, and Ariyo Oluwasanmi. A super-resolution generative adversarial network with siamese cnn based on low quality for breast cancer identification. In *2021 4th International Conference on Pattern Recognition and Artificial Intelligence (PRAI)*, pages 218–223. IEEE, 2021.

2021 **Grace Ugochi Nneji**, Jingye Cai, Deng Jianhua, Ijeoma Amuche Chikwendu, Ariyo Oluwasanmi, Edidiong Christopher James, and Goodness Temofe Mgbejime. Enhancing low quality in radiograph datasets using wavelet transform convolutional neural network and generative adversarial network for covid-19 identification. In *2021 4th International Conference on Pattern Recognition and Artificial Intelligence (PRAI)*, pages 146–151. IEEE, 2021.

2021 **Grace Ugochi Nneji**, Jingye Cai, Jianhua Deng, Saifun Nahar, Goodness Temofe Mgbejime, Edidiong Christopher James, and Surafel Kifetew Woldeyes. A dual weighted shared capsule network for diabetic retinopathy fundus classification. In *2021 International Conference on High Performance Big Data and Intelligent Systems (HPBD&IS)*, pages 297–302. IEEE, 2021.

2021 **Grace Ugochi Nneji**, Jingye Cai, Jianhua Deng, Happy N Monday, Edidiong C James, Bona D Lemessa, Abel Z Yutra, Yobsan B Leta, and Saifun Nahar. Covid-19 identification using deep capsule network: A perspective of super-resolution cnn on low-quality cxr images. In *2021 the 7th International Conference on Communication and Information Processing (ICCIP)*, pages 96–102. ACM, 2021.

2021 Happy Nkanta Monday, Jian Ping Li, **Grace Ugochi Nneji**, Abel Zenebe Yutra, Bona Debela Lemessa, Saifun Nahar, Edidiong Christopher James, and Amin Ul Haq. The capability of wavelet convolutional neural network for detecting cyber attack of distributed denial of service in smart grid. In *2021 18th International Computer Conference on Wavelet Active Media Technology and Information Processing (ICCWAMTIP)*, pages 413–418. IEEE, 2021.

2021 Happy Nkanta Monday, Jian Ping Li, **Grace Ugochi Nneji**, Ariyo Oluwasanmi, Goodness Temofe Mgbejime, Chukwuebuka Joseph Ejiyi, Ijeoma Amuche Chikwendu, and Edidiong Christopher James. Improved convolutional neural multi-resolution wavelet network for covid-19 pneumonia classification. In *2021 4th International Conference on Pattern Recognition and Artificial Intelligence (PRAI)*, pages 267–27. IEEE, 2021.

2021 Happy Nkanta Monday, Jian Ping Li, **Grace Ugochi Nneji**, Edidiong Christopher James, Yobsan Bayisa Leta, Saifun Nahar, and Amin Ul Haq. Shared weighted continuous wavelet capsule network for electrocardiogram biometric identification. In *2021 18th International Computer Conference on Wavelet Active Media Technology and Information Processing (ICCWAMTIP)*, pages 419–425. IEEE, 2021.

2021 Happy Nkanta Monday, Jian Ping Li, **Grace Ugochi Nneji**, Edidiong Christopher James, Ijeoma Amuche Chikwendu, Chukwuebuka Joseph Ejiyi, Ariyo Oluwasanmi, and Goodness Temofe Mgbejime. The capability of multi resolution analysis: A case study of covid-19 diagnosis. In *2021 4th International Conference on Pattern Recognition and Artificial Intelligence (PRAI)*, pages 236–242. IEEE, 2021.

2021 Ejiyi Chukwuebuka Joseph, Olusola Bamisile, **Grace Ugochi Nneji**, Qin Zhen, Ndalahwa Ilakoze, and Chikwendu Ijeoma. Systematic advancement of yolo object detector for real-time detection of objects. In *2021 18th International Computer Conference on Wavelet Active Media Technology and Information Processing (ICCWAMTIP)*, pages 279–284. IEEE, 2021.

2019 Saifun Nahar, Ting Zhong, **Grace Ugochi Nneji**, Michael O Mills, and Hassan S Abubakar. Analyzing data mining and its application to smart business. In *2019 4th Technology Innovation Management and Engineering Science International Conference (TIMES-iCON)*, pages 1–5. IEEE, 2019.

2019 Saifun Nahar, Ting Zhong, Michael O Mills, **Grace Ugochi Nneji**, and Hassan S Abubakar. A survey on data stream mining towards the internet of things application. In *2019 4th Technology Innovation Management and Engineering Science International Conference (TIMES-iCON)*, pages 1–5. IEEE, 2019.

2018 **Grace Ugochi Nneji**, Jianhua Deng, Sarder S Shakher, Basil C Mbonu, and Abel Ogungbile. A collaborative learning approach for integrated time based online environment. In *2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)*, pages 1138–1144. IEEE, 2018.

2018 **Grace Ugochi Nneji**, Jianhua Deng, Sarder S Shakher, Basil C Mbonu, and Mercy C Nneji. Online collaborative approach of interactive antenatal lectures for expectant mothers. In *2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)*, pages 1047–1053. IEEE, 2018.

2018 **Grace Ugochi Nneji**, Jianhua Deng, Sarder S Shakher, David Agomuo, and Chiagoziem C Ukwuoma. A multimedia computer aided learning software. In *2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)*, pages 807–813. IEEE, 2018.

2018 **Grace Ugochi Nneji**, Jianhua Deng, Sarder S Shakher, David Agomuo, and Ifeanyi D Dike. An improved e-clearance management system for graduating students in a university environment. In *2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)*, pages 74–80. IEEE, 2018.

2018 **Grace Ugochi Nneji**, Jianhua Deng, Basil C Mbonu, Mercy C Nneji, and Eziefuna E Onyinye. Android-based information system for marriage counseling. In *2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)*, pages 978–984. IEEE, 2018.

2018 Happy Nkanta Monday, Jian Ping Li, **Grace Ugochi Nneji**, Chiagoziem C. Ukwuoma, Ifeanyi D. Dike, and Richard I. Nneii. Design of an improved cost effective electronic locking system. *2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)*, pages 493–499. IEEE, 2018.

2018 Happy Nkanta Monday, Jian Ping Li, **Grace Ugochi Nneji**, Chiagoziem C. Ukwuoma, David Agomuo, and Richard I. Nneji. Ensuring data governace and enhancing data security in a private cloud environment. *2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)*, pages 1018–1024. IEEE, 2018.

2018 Happy Nkanta Monday, Jian Ping Li, **Grace Ugochi Nneji**, Ifeanyi D. Dike, David Agomuo, and Abel Ogungbile. Enhanced attendance management system: A biometrics system of identification based on fingerprint. *2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)*, pages 500–505. IEEE, 2018.

Research Experience

University of Electronic Science and Technology of China

Sept., 2019 – present ***Doctoral Research Assistant: UESTC Digital Information System Processing Laboratory***.

- Developed a novel super-resolution generative learning model for enhancing medical image quality for the identification of COVID-19.
- Developed a multi-channel fusion scheme for the identification of Pneumonia using chest x-ray Images.
- Developed an algorithm for identifying diabetic retinopathy using weighted fusion deep learning based on dual-channel fundus scans.
- Developed a joint framework of super-resolution model and deep neural network for the enhancement and identification of the low quality of breast cancer images.
- Developed a dual weighted shared capsule network for diabetic retinopathy fundus classification.
- Mentor and supervise International students in the development of machine learning frameworks, paper publication and thesis writing.
- Present academic seminars and practical workshops on neural networks framework and implementation.

Sept., 2017 – 2019 ***Graduate Assistant: UESTC Digital Information System Processing Laboratory***.

- Developed a framework for vehicle image recognition achieving an accuracy of 97.12%.
- Data analysis and data visualization
- Developed a framework for image segmentation
- Developed an e-clearance management system for graduating students in university environment.
- Developed an android chat application

Advisor : **Prof. Cai Jingye**, *Professor, School of Information & Software Engineering*, University of Electronic Science and Technology of China (*Personal Web-page*)

Associate Advisor : **Dr. Jianhua Deng**, *Associate Professor, School of Information & Software Engineering*, University of Electronic Science and Technology of China

Selected Journal Peer-Review

Journal of Medical Internet Research

JMIR medical Informatics

JMIR Research Protocol

JMIR Bioinformatics and Biotechnology

Journal of Pharmaceutical Research International

Open Science Journal

BMC Medical Informatics and Decision Making

Scientific Reports

PeerJ

IJIMAI

Selected Certificates

2022 TensorFlow Developer Certificate - TensorFlow

2023 Machine Learning Specialization - DeepLearning.AI and Stanford University

2024 Google Data Analytics Professional Certificate - Google

2024 IBM Data Science Professional Certificate - IBM

2024 Generative AI: Elevate Your Data Science Career - IBM

2024 Developing AI Applications with Python and Flask - IBM

Academic Achievements & Recognitions

2019-2020 1st Prize of Academic Achievement.

2017-2018 UESTC Excellent Outstanding International Student.

2017-2018 1st Prize of Academic Achievement.

2017-2018 3rd Prize of Excellent Performance.

Scholarship

2019–2022 Recipient of the ***Chinese Government Scholarship*** *for Doctoral Research Program*, awarded by **The Chinese Government.**

2017–2019 Recipient of the ***University Partial Scholarship*** for Masters' Research Program, awarded by **University of Electronic Science and Technology of China (UESTC).**

Computer skills

Machine Learning: Deep learning, Computer vision, Machine learning, Image processing, Supervised learning, Unsupervised learning

Tools & Libraries: OpenCV, Kivy, Matplotlib, Keras, Numpy, Scikit-learn, Pandas

Programming: Python, Latex

Selected Position of Responsibility

January 2019 **Academic Guest Speaker**, School of Information and Software Engineering, UESTC

March 2019 **Academic Mentor**, International Student Union, UESTC

June 2019 **Welfare**, International Student Union Electoral Committee, UESTC

January 2021 **Distinguished Judge**, USAD CHINA 2021

April 2021 **Academic Judge**, Science and Technology Course Interpretation, UESTC

May 2021 **Special Organizer**, International Student union (ISU) Experience, 2021, UESTC

May 2021 - Present **Team Lead**, Tianjiao Community Service and Development, Chengdu, Sichuan

Referees

Prof. Jingye Cai
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