MD BABUL ISLAM

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Objectives

Researcher and Former Lecturer, Expert in Artificial Intelligence, Data Science, IoT Machine Learning, Deep Learning, Bioinformatics, and Medical Healthcare Systems. Knowledgeable in most facets of computer science and engineering (theory and applied). Mr. Babul published more than 6 papers in IEEE and Springer Conference Paper, currently, he submitted two papers to Journal papers. He has a strong background in project management and a teaching job as well likes to devote most of his time to conducting research because teaching is his area of enthusiasm. In addition, he enjoys immersing himself in novel knowledge.

Education

University of Calabria	**Nov. 2022 - Nov. 2025 (Appeared)**
Ph.D. in Information and Communication Technologies (ICT)	*Rende, Calabria, Italy*
Huzhou University	**Sep. 2019 – June 2022**
M.Sc in Intelligence Information Processing Technology (IIPT)	*Zhejiang, China*
City University	**Nov. 2013 – Dec 2017**
B.Sc. in Computer Science and Engineering(CSE)	*Dhaka, Bangladesh*

Teaching Work Experience History

Lecturer, Micro Institute of Technology(MIT)　　　　　　　　**March 2018 – October 2019**

Full Time Worker　　　　　　　　*Saver, Dhaka, Bangladesh*

- **Main Agenda:** Share knowledge to conduct theory classes, practical skills, and Teach techniques subjects, and Labs at MIT. Also Supervised a plethora of final-year projects.
- **Course Taken:** C Programming, Basic Python, Java Programming, Web Design, Web Design Development, Data Structure Algorithms, Multimedia Graphics, Computer Servicing, Embedded System PLC, Microprocessor Micro-controller, Computer Network, Computer Architecture, Database Management System and Computer Final Year Project.
- **Thesis/ Project/ Intern Supervised (6 Month)**: I supervised four final year student's projects (8th Semester) at Diploma in Computer Technology with the faculty of Computer Technology at Micro Institute of Technology, Dhaka, Bangladesh.
- Explored ways to visualize ERP systems and send a daily report of test results to team members.

Lecturer, San Aibin Artificial Intelligent Education　　　　　　　　**Feb 2021 – 2021 Dec**

Part Time Worker　　　　　　　　*Huzhou, China*

- Basic Computer Programming and English Teacher. As a foreign teacher, the medium of instruction was in English.
- Teach the school's computer science curriculum to students between Year 12 and Year 18.
- Co-teach with Chinese teachers and be prepared to develop and improve school-based curriculum
- Assess and monitor students' progress and provide targets so that all learners can succeed and improve

Industrial Experience

Data Analysis, Zhejiang Seating Technology Co., Ltd.　　　　　　　　**June 2022 – December 2022**

Full Time Worker　　　　　　　　*Huzhou, Zhejiang, China*

- ∗ Proficiency supporting data and analytics efforts in an innovative environment to support business goals.
- ∗ Defining the business problem, Determining the analytical approach, Efficiently extracting relevant data, Appropriately using statistical and data analysis techniques.
- ∗ E-com sales planning and tracking, based on E-com stock/ sales strategy/Operation capacity, Finding key insights based on overall E-com related data analysis, Support E-merchandising team to monitor stock and delivery status tracking, Providing data to E-merchandising to monitor performance and trend of products, Provide data to E-com operation to monitor KPI and optimize the procedure.
- ∗ Explored ways to visualize and send a daily report of test results to team members using HTML, JavaScript, and CSS.

Data Analyst, Zhejiang Linxin Smart Home Co., Ltd. Dec. 2021– June 2022

Full Time *Zhejiang, China*

* As a Data Scientist, I did web scrapping of a different kind of E-Commerce website to extract information to build a better and grow business, Managing International Alibaba and Amazon Platform at Zhejiang Linxin Smart Home Company Limited, Zhejiang, China.
* SEO E-Mail Marketing: Keyword Searching, Keyword Searching, Off-On page, Backlink SEO, Google Adds, Team Work Contributions, Customer Satisfactory

Data Analyst, Zhejiang Seating Technology Co., Ltd. Jun 2022– Dec 2022

Full Time *Zhejiang, China*

* Web scrapping of a different kind of E-Commerce website to extract information to build a better and grow business, Company employee performance analysis, as good, the better best performance from the data sets.

IT Assistant, Crown Hospital February 2016 – January 2018

Part-Time Time *Saver, Dhaka, Bangladesh*

* LAN, all attendance sheet checkup, report making, web Server maintenance, router setting camera, etc.

Running Research Projects

IoT Smart Home Management | *Programming Language: Python* Sep. 2022

* Through the use of IoT edge computing, sensors, and implementation devices, we will create artificial intelligence algorithms, with the aid of machine learning, enabling improved energy efficiency for the optimum management of smart home buildings without reducing the comfort of the people living in such buildings.

* In our work will allow us to monitor and control the energy flows inside or outside of buildings while interacting with IoT devices via wireless protocols to manage heterogeneous systems (electrical, thermoregulation, safety).

* In our investigation, we'll also look at several strategies for enhancing the functionality (big data center, taking opinions from different ages of people, personal data accuracy, and prediction) of the key elements of a smart home system, such as activity recognition, privacy-preserving, and dialogue systems.

Disease Emotion Detection and Sentiment Analysis | *Numpay, Pandas, Matplotlib, Seaborn* June 2022

* We emphasize the latest unsupervised and semi-supervised deep learning in medical image analysis, which are summarized based on different application scenarios, including classification, segmentation, detection, and image registration.

* We proposed new possible solutions in future research efforts. After taking service from the hospital, we'll analysis the patient's emotions analysis.

Completed Projects

Covid-19 with Machine Learning | *Python, Selenium, Google Cloud Console* January 2021

* Goal: Applying Machine Learning Algorithms and Compare Performance, Business Analysis include foods, along with Twitter Sentiment Analysis (Vaccine and people reactions)

Fraud Detection (ML, DC) | *Python, Selenium, Google Cloud Console* February 2021

* Goal: We will create a few machines learning (ML) models utilizing anonymized credit card transaction data in this project. We have compared with performance, SMOTE and ADASYN with Machine Learning Algorithms.)

5G and VNE | *Java* January 2021

* Goal: A Wireless Improved 5G Network-Based Virtual Networking System Focused on Equal Bandwidth, found that using multiple links to single-link network connections improved the 5G network-based VNE system.)

Web Based E Commerce B2B and B2C | *HTML 5, CSS, PHP, Bootstrap, Ajax* December 2017

* Goal: A web-based Business to Business(B2B), and, Business to customers (B2C)E-Commerce based site where consumers buy and sell their products. They can buy old and new products as well)

Other Project | *HTML 5, CSS, PHP, Bootstrap, Ajax* 2014-2017

* How to Caught a Thief in my House(Safety House or Room) and Seven Segment Lighting Systems | *Arduino, Arduino Library, ISIS Proteus Professional -7*
* Management System | *C++, Microsoft access*
* Smart Traffic Android App | *(Design part), Android Studio*
* BM newspaper-Where true always talk without fair | *HTML, CSS, PHP, Bootstrap*
* Traffic Alert | *Arduino, Arduino Library, ISIS Proteus Professional -7*

Technical Skills

Programming Languages: Python (Pandas, NumPy,PyTorch ,Scikit-Learn, Matplotlib, Keras), Java, C,C+ HTML/CSS, JavaScript, SQL
Developer Tools: Jupyter Notebook, Eclipse, Google Cloud Platform, Android Studio
Technologies/Frameworks: Linux, Jenkins, GitHub, JUnit, WordPress

Languages

English: Fluent (Reading, Writing, Spoken, Listening)
Chinese: HSK 2(Passed))
Hindi: Understandable
Bengali:Fluent

Award and Certification

With Online Courses-Academic and Non Academic   **Till Now**

· Master's **Full Funding** Scholarship (Tuition, Accommodation and Stipend) at Huzhou University (HU).
· Office Director, International Student Union(ISU), Huzhou University
· Excellent Volunteers Certificate at HU.
· Online IBM Machine Learning Course (Certified)
· Online IBM Data Science (Certified)
· Advanced Google Analytics (Certified)
· Room Beautification at Huzhou University
· Foreign Language (TEFL) Certificate Course.
· In my under-graduation time, I was awarded the last 5 semesters for the highest CGPA.
· Best Teacher at Micro Institute of Technology
· Programming Contest at the University of San Francisco.

Paper Review and Attended Conference

Review, Committee Member: Journal and Conference Paper   **Till now**

Sci Tech-CSST (Part Time)
ICMIAC IEEE Conference-2022, China; Committee Member.
AICAT IEEE Conference 2022, China, Committee Member

Conference Attended

1. 2021 2nd International Symposium on Computer Engineering and Intelligent Communications in Nanjing, China.
2. Big Data Artificial Intelligence Software Engineering (ICBASE)- 2021, on 2nd International Conference on in China.
3. 8th International Forum on Electrical Engineering and Automation (IFEEA 2021) in 2021, Xian, China.
4. 13th International Conference on Soft Computing and Pattern Recognition(SoCPaR-2021) to be online during December, 2021 in India.
5. Int. Conference on Computational Intelligence for Eng. and Management Applications-2021, India.
6. 3rd DOCTORAL SYMPOSIUM ON COMPUTATIONAL INTELLIGENCE (DOSCI 2022) Organized by the Institute of Engineering Technology, a constituent college of Dr. APJ Abdul Kalam Technical University Lucknow, India.

Research Paper Publication

Published and Accepted
1. M. B. Islam, C. Avornu, P. K. Shukla and P. K. Shukla, Cost Reduce: Credit Card Fraud Identification Using Machine Learning, 2022 7th International Conference on Communication and Electronics Systems (ICCES), 2022, pp. 1192-1198, doi: 10.1109/ICCES54183.2022.9835811.
2. Islam, Md Babul, et al. Detect deception on banking credit card payment system by machine learning classifiers. Second International Conference on Cloud Computing and Mechatronic Engineering (I3CME 2022). Vol. 12339. SPIE, 2022.
3. M. B. Islam , K. S. Islam, A. Noman, J. Ncube and X. Chen, A Fiber Wireless Improved 5G Network-Based Virtual Networking System Focused on Equal Bandwidth, 2021 2nd International Symposium on Computer Engineering and Intelligent Communications (ISCEIC), 2021, pp. 439-445, doi:10.1109/ISCEIC53685.2021.00098.

4. K. S. Islam, **M. B. Islam**, C. Avornu, J. Lou and P. K. Shukla, "Blockchain Based New E-voting Protocol System without Trusted Tallying Authorities," 2022 Fifth International Conference on Computational Intelligence and Communication Technologies (CCICT), 2022, pp. 311-317, doi: 10.1109/CCiCT56684.2022.00064.

5. Md Babul Islam, S Hasibunnahar and others - Diet and Food Restaurant in the Covid-19 Time by Machine Learning Approaches, CIEM-2021, Springer Conference (Accepted)

6. Md Babul Islam , Dr. Piyush Kumar Shukla and others-Twitter Opinion Mining on COVID-19 Vaccinations by Machine Learning Presence (DOSCI 2022 Accepted in Springer Conference Suggest to Journal Publication)

In Progress:

7. Md Babul Islam Others-Covid-19 Twitter Sentiment Analysis (Working on it).

8. Md Babul Islam and others, Machine Learning and Image Processing for Medical Image Analysis- Disease Perspectives, (Submitted Q1 Journal)

9. Md Babul Islam and others AI health care systems: Patients Sentiment Analysis and Emotion Detections (Submitted Q2 Journal).

10. Md Babul Islam and others IoT Smart Home and Machine Learning for Energy Efficiency (Working on it)

References

Masters's Co-Supervisor

Name:	Yanlei Kang (Ph.D.), Associate Professor
School:	School of Information Engineering
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Bachelor's Supervisor

Name:	Md Nuruzzaman
Position:	IT Head and Associate Professor
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Declaration

I   hereby   **declare**   that   the   above   information   is   correct   to   the   best   of   my   knowledge.

Yours Sincerely

Md. Babul Islam