**CURRICULUM VITAE**

**General Information:**

**Name:** Albia Maqbool Alam

**Nationality**: Indian

**Religion**: Islam

**Tel:** +966146615206

**Education:**

* Ph.D. in Computer Science (Bioinformatics), Shri Venkateshwara University, India, 2019.
* Master of Technology (MTech) in Bioinformatics, Jamia Hamdard, India, 2010.
* Bachelor of Sciences (B.Sc.) 4 Years in Biotechnology, Allahabad Agricultural Institute- Deemed University, India, 2008.

**Academic Experience:**

* Lecturer, Computer Sciences Department, Faculty of Computing & Information Technology, Northern Border University from 2014- Present.
* Coordinator of Computer Sciences Department, Faculty of Computing & Information Technology, Northern Border University from 2018- 2024

**Technical Skills:**

**INFORMATION TECHNOLOGY**

* Programming Languages: PHP and Java
* Operating Systems: Windows 7/XP/Vista/, Linux/Unix.
* Application Software: MS-office Package
* Web Server: XAMPP, WAMP
* Database: MySQL
* UML Tools: Software Ideas Modeler,

MS Visio, Rational Rose

* Networking Software: Cisco Packet Tracer
* Logic Programming Language: Prolog
* Data Mining Program: RapidMiner

**BIOINFORMATICS SOFTWARE**

* Alignment Tools: Blast, Clustal X/W, BioEdit
* Modeling Softwares:Modeller9v7,Swiss-Model,MODWEB Server
* Model Validation Softwares: SAVS Server
* Molecular Visualization Softwares: RasMol, MOLMOL, Cn3D, Pymol
* Molecular Dynamics Softwares: GROMACS, VMD
* Topology prediction: TMpred, SOSUI, TMHMM, HMMTOP
* Databases: NCBI, PDB, EBI, PGD

**Courses Taught:**

* Artificial Intelligence
* Operating System
* Computer Networks
* Network Administration
* Wireless Network
* System Analysis & Design
* Software Engineering
* Software Design Pattern
* Software Quality & Testing
* Internet Application & Web Programming
* Decision Support System
* Introduction to Computing
* Technical Writing
* Programming 1& 2
* Needs Assessment & Technology Evaluation
* Graduation Project 1 & 2 (CS, IT & IS)

**Committees:**

* **CS Member in NCAAA Final Visit** (3 Session - Quality Assurance: Processes and Procedures, Teaching and Learning, and Learning Resources, Facilities and Equipment)-**October-2023**
* **CS Female Representative for ABET** Visit-Renewal of Accreditation-**November-2023**
* **Female Representative for the IT** Department, at the time FCIT obtained international accreditation from **ABET (2017)**
* Member in Quality and Academic Accreditation Committee **(2014-till date)**
* Member of Computer Lab Development Committee **(2015-till date)**
* **Head of Students Activities Committee** **(2017)**
* Member of Students Activities Committee **(2017-till date)**
* Academic Advisor for more than 300 students **(2017-till date)**
* Supervised Graduation Project for more than 250 Graduate Students **(2016-till date)**
* Member of Students affair and equivalency committee (2022-2023)
* Member of Website and Lab Handout Committee (2017-2019)
* Member of organizing committee in second **Student Project Exhibition (2016)**

**Professional development activities:**

* Huawei Certified ICT Associate **(HCIA-Datacom Training) April 2024**
* Huawei Certified ICT Associate **(HCIA-AI Training) Feb 2024**
* NCAAA, ABET, QAAU **(2014-till date)**

**Workshop:**

* **Virtual Speaker** at One Day International Seminar on Thrust Areas of Artificial Intelligence, organized by Swami Vivekanand Subharti University, India, 15th March 2024
* Presented a workshop on **Video Editing in Photoshop CC** at **the Raoum Association for orphan care in Rafha Governorate**. February 2020
* Presented a **workshop on Arduino** and its importance in Faculty of Computing and Information Technology. November 2018

**Honors and Awards:**

* Reviewer for the journal Engineering, Technology & Applied Science Research (ETASR). <https://www.etasr.com/index.php/ETASR>
* Received a certificate of thanks and an appreciation certificate from the Rector of Northern Border University for my role as **Female Representative for the IT** Department, at the time faculty of computing and Information Technology obtained international accreditation from **ABET**.
* **ELSEVIER** Biochemistry & Biophysics reports, reviewer certificate.
* Received acknowledgement certificate from **Director of Raoum Association for orphan care in Rafha Governorate** for my community services for orphans in 2020.
* Received an appreciation certificate from Dean of faculty of Computing and Information Technology for my role as **Chair (Head) of Student Activities Committees** for leading various social and scientific activities in 2017.
* Received a certificate of appreciation from the Dean, Faculty of Computing & IT as member of the Website and Lab Handouts committee.
* Received participation certificate from the Dean of FCIT, as a member of organizing committee in second **Student Project Exhibition** in faculty of computing and IT.

**Publications:**

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| [Optimization of Neural Networks Using Mathematical Algorithms: An LSTM-Based Machine Learning Approach to Lung Cancer Diagnosis](https://internationalpubls.com/index.php/anvi/article/view/2052), Advances in Nonlinear Variational Inequalities (ANVI), Vol. 28, Issue No. 2 (2025), Pages 365-388.[Advanced Convolutional Neural Network and Long Short-Term Memory Model for Real-Time Spam Detection in Internet of Things Devices](https://journal.esrgroups.org/jes/article/view/6573), Journal of Electrical Systems (JES), October 2024, Vol. 20, Issue No.10s, Pages 6114-6135.Proactive Cyber Defense and Forensic Investigation Techniques for Drone Operation: A Holistic Approach, Journal of Theoretical and Applied Information Technology (JATIT), 30 September 2024, Vol. 102 Issue 18, Pages 6697-6709.Deep Learning for Tomato Disease Detection with YOLOv8, Engineering, Technology & Applied Science Research (ETASR), 7 March 2024, Volume 14, Issue 2, pages 13584-13591.An NLP-Based Approach to fortifying Cyber Defenses, International Journal of Intelligent Systems and Applications in Engineering (IJISAE), March 2024, Vol. 12, Issue No. 20s, pages 667–676.Intrusion Detection using Network Traffic Profiling and Machine Learning for IoT, Journal of Electrical Systems (JES), March 2024, Volume 20, Issue 3s, pages 2140-2149.Efficient Hardware Accelerator and Implementation of JPEG 2000 MQ Decoder Architecture, Engineering, Technology & Applied Science Research (ETASR), 29 February 2024, Volume 14, Issue2, pages 13463-13469.Design and Implementation of a Real-Time Image Processing System Based on Sobel Edge Detection using Model-based Design Methods, International Journal of Advanced Computer Science & Applications (IJACSA), 2024, Vol 15, Issue 3, pages 273-278.A Novel Approach for Lung Cancer Detection Using Deep Learning Algorithms, International Journal of Intelligent Systems and Applications in Engineering, (IJISAE), 7 February 2024, Vol. 12 Issue No 15s, pages 471-480.Biotechnology and Genetic Engineering using AI: A Review, International Journal of Intelligent Systems and Applications in Engineering, (IJISAE), 11 January 2024, Vol. 12 Issue No. 11s, pages 350-364.Study and implementation of Dijkstra’s algorithm in angiography process to analysis veins blockage in Human’s Heart. *International Journal of Advanced Engineering Science and Technological Research (IJAESTR),* Volume 6 Issue 3 September 2018 (ISSN: 2321-1202)Study and Analysis in Dijkstra’s algorithm and Bellman ford algorithm on run-time basis & implementation in angiography system, *Airo International Research Journal* Vol. XVI, April 2018 (ISSN: 2320-3714)Future Application Trends for Health based Internet of Things. *International Journal of Computer Applications*, Volume 118 - No.18: May 2015. (ISSN: 973-93-80886-87-9) |