

Sabbir Ahmad

Moddho Hazinagar, Sarulia 1361, Demra, Dhaka, Bangladesh

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Education

- **University of Chittagong**, Chittagong, Bangladesh
B.Sc. (Honours) in Computer Science and Engineering — CGPA: 3.44/4.00 2012

Research Experience

Publication: *LBF-MI: Limited Boolean functions and mutual information to infer a gene regulatory network from time-series gene expression data*

- Proposed a two-phase method using Boolean functions and mutual information.
- Validated on real and synthetic datasets; outperformed benchmarks.

Publication: *Neural Network-Based Risk Prediction for Medical IoT Cybersecurity in Smart Hospitals*

- Conducted a meta-analysis of 112 studies on neural network-based intrusion detection.
- Showed CNN and LSTM models reduce false positives and improve real-time threat detection.

Conference Presentation

Presenter, 5th International Conference on Biotechnology in Health and Agriculture (ICBHA 2023) September 2023

LBF-MI: Limited Boolean Functions and Mutual Information to Infer a Gene Regulatory Network from Time-Series Gene Expression Data

Presented research on a novel two-phase method combining Boolean functions and mutual information for gene regulatory network inference. Discussed applications to synthetic and real datasets, including E. coli networks, and comparative analysis with existing methods.

Professional Experience

Senior Software Engineer, M&H Telecom Ltd., Bangladesh

Aug 2013 – Present

- Designed and managed scalable database systems.
- Automated ETL pipelines using Crontab and Windows Scheduler.
- Wrote advanced SQL queries for billing and reporting systems.
- Provided remote client support and managed hosting infrastructure.

Programmer, IBCS Primax Software Ltd., Bangladesh Oct 2011 – Aug 2013

- Developed backend/frontend software modules.
- Conducted debugging, documentation, and API integration.

Teaching Experience

Lecturer, Victory Coaching Center 2007 – 2012

- Taught Mathematics and ICT to 11th-12th -level students.
- Prepared lesson plans, mock tests, and mentoring sessions.

Technical Skills

Database: Oracle, MySQL, SQL Server, PostgreSQL, MongoDB **Analytics:** Tableau, Power BI, KNIME, Jupyter Notebook **Languages:** Python, R **Platforms:** LabArchives, REDCap, DMPTool **OS:** Linux, Windows Server, UNIX Tools

Training

- **AWS Certified Solutions Architect Associate** Completed: March 2024
Gained hands-on experience in designing scalable, reliable cloud infrastructure on AWS. Covered topics including VPC, EC2, S3, IAM, and cost optimization.
- **Oracle DBA 10g (SQL, Admin I, Admin II)** – IBCS-PRIMAX Software Ltd. Oct 2012 – Feb 2013
Learned database administration, performance tuning, and backup/recovery strategies using Oracle Database 10g. Included hands-on practice with RMAN and SQL*Plus.
- **Red Hat Linux System Administration** – IBCS-PRIMAX Software Ltd. Jun 2012 – Sep 2012
Focused on Linux server setup, shell scripting, user and permission management, and system troubleshooting. Configured services like Apache, FTP, and SSH.

Participations & Awards

- General Grade Scholarship in National Junior Scholarship Exam (2000)

Extracurricular Activities

- **2nd Divisional Cricket Player:** Developed teamwork, strategic thinking, and discipline—skills valuable in collaborative research and project management in computer science.
- **Volunteer in CU Seminars and Cultural Programs:** Gained experience in organizing technical events, enhancing my communication and coordination skills useful for academic presentations and conference participation.
- **Executive Member, Shandhani Blood Bank CU Unit (2007–2012):** Led and managed health campaigns and blood donation drives, demonstrating leadership, responsibility, and commitment to community service—traits that support ethical research and broader societal impact.

Membership

Associate Member, Bangladesh Computer Society (AM-AM11323)

- Participated in professional seminars and workshops on computer science and ICT policy development.
- Contributed to member discussions on the role of digital innovation in national development.
- Gained valuable insights into emerging technologies, professional ethics, and computing standards in Bangladesh.

Language Proficiency and Standardized Test

Duolingo English Test (Mar 2023): Overall 140

TOEFL English Test (Jun 2025): Overall 81

GRE: 313/340 (Quant: 157, Verbal: 156, AWA: 3.0)