SABBIR AHMED

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RESEARCH INTEREST

AI-assisted Next Generation Wireless Networks (5G/6G), Distributed Machine Learning, Edge Computing, Signal/Image Processing, Remote Sensing, and Internet of Things (IoT)

EDUCATION

Islamic University of Technology (IUT) *(a subsidiary organ of OIC)*   Gazipur, Bangladesh
BSc, Electrical and Electronic Engineering   January 2017 – March 2021
CGPA: 3.70 out of 4.00 (last 4 semesters CGPA: 3.95 out of 4.00)

Notre Dame College   Dhaka, Bangladesh
Higher Secondary School (HSC)   2016
GPA: 5.00 out of 5.00

RESEARCH EXPERIENCE

Undergraduate Thesis – *"Challenges in 5G Network Planning: Design and Optimization using Atoll"*
- **Network Planning:** Designed an efficient network by installing a minimal number of base stations (19 gNB) for the selected area
- **Optimization:** Enhanced computational area coverage by 8.96% in RSRP and 2.54% in RSRQ, while minimizing overlap
- **Performance:** Achieved high-quality signal metrics with 90.09% RSRP and 93.05% RSRQ in both uplink and downlink

PROFESSIONAL EXPERIENCE

Specialist, Core IT Application, Information Technology   Oct 2022 – Present
Robi Axiata PLC | *A multinational telecommunication company*   Dhaka, Bangladesh
- **Conduct Technical Feasibility and Solution Optimization**
  Lead the analysis of business requirements (both domestic and international roaming), focusing on the technical feasibility of telecom-related projects and provide optimized solutions.
- **Telecom Package Configuration in BSS Systems**
  Configure and optimize telecom packages in various Business Support Systems (BSS)
- **Automation of Charging & Billing Systems Using Python**
  Develop and implement Robotic Process Automation (RPA) for telecom charging and billing systems.

Graduate Substation Design Engineer (Electrical)   June 2021 – Sept 2022
Electricity Transmission Consultant Bangladesh Limited (ETCBL Global)   Dhaka, Bangladesh

STANDARDIZED TEST SCORES

International English Language Testing System (IELTS) - 23rd November 2024

Overall Score	Listening	Reading	Writing	Speaking
7.5	7.5	8.5	7.5	6.5

UNDERGRADUATE PROJECTS

P1. Development of Real-time Facemask Detection using CNN & Deep Learning …... (*BSc. 4th Year Project*)
P2. Designing of Noise Cancellation Filter using MATLAB ……. …… ………. ……. (*BSc. 4th Year Project*)
P3. Implementation of Automatic Power Factor Improvement using Arduino …. … … (*BSc. 3rd Year Project*)
P4. Designing of Basic Calculator using 8051 Microcontroller …… …… ..... ……… (*BSc. 3rd Year Project*)
P5. Development of CGPA Calculator using Python programming language ….. …. ... (*BSc. 2nd Year Project*)
P6. PCB implementation of basic calculator using Proteus software … … … … .……. (*BSc. 2nd Year Project*)
P7. Implemented Intelligent Scrap Manager using Arduino 101 …… ……. … ……… (*BSc. 1st Year Project*)

SCHOLARSHIPS & ACHIEVEMENTS

- **Best Project Award** for successful and smooth delivery of BTRC Directed VAT Change Implementation project at IT Townhall H1 2024 in Robi Axiata PLC
- **Government Scholarships:**
  Received board scholarships (talent-pool category), offered by Government of Bangladesh in
  - Secondary School Certificate (SSC) Examination – 2014
  - Junior School Certificate (JSC) Examination – 2011
  - Primary School Certificate (PSC) Examination – 2007

EXTRACURRICULAR ACTIVITIES

Organizer (2019-2020)	• Science Olympiads, organized by Science Club of Chuadanga (SCC), a regional competition among school & college level students to enlighten them about innovations of science & technology.
Organizer (2017-2020)	• Esonance, organized by Islamic University of Technology (IUT), EEE department, a national competition on innovations in the field of engineering.
Member (2017-2018)	• IEEE IUT student branch, volunteered to organize seminars, quizzes etc.
Participant (2017)	• Intra IUT Line Follower Robot (LFR) competition, an on-campus event organized by IEEE IUT student branch.
Participant (2017)	• Idea workshop for mobile games and application development organized in IUT by ICT division of Bangladesh

CERTIFICATIONS & TRAININGS

- Cisco Networking Foundations: Fundamentals of Cisco Networking [LinkedIn Learning]
- Introduction to Prompt Engineering for Generative AI [LinkedIn Learning]
- Product Management Insights [Coursera]
- Introduction to 5G [LinkedIn Learning]
- Introduction to TensorFlow for AI, ML, and Deep Learning [Deeplearning.ai]
- Python Data Structures Certification [University of Michigan (Online)]
- Using Python to Access Web Data Certification [University of Michigan (Online)]

TECHNICAL SKILLS

Programming Language:	Python, Oracle SQL, C
Computer Software:	Proteus, MATLAB, COMSOL, CodeBlocks, Atoll, PSpice, SoapUI, PyCharm

LINGUISTIC PROFICIENCY

- English (fluent working proficiency)
- Bangla (native language), Urdu and Hindi (working proficiency)