Nazmus Sakib Bhuiyan

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Computer Science and Engineering
BRAC University

Dhaka, Bangladesh
⦿ Github, 🔗 LinkedIn, 🌐 Portfolio

KEY QUALIFICATIONS

- Strong understanding of SDLC/STLC with experience in test case writing, scenario based testing and functional testing
- Familiar with Selenium, Appium and PyTest and Proficient in Python, Java and C/C++ with ability to write clean, testable scripts
- Experienced with web applications, REST APIs and backend logic in Django, Node.js, PHP and skilled in bug detection and debugging
- Hands on experience in AI/ML research using GANs and predictive modeling

TECHNICAL AND SOFTWARE SKILLS

Programming Languages: Python, Java, C/C++, JavaScript
Frontend Technologies: HTML, CSS, React.js
Backend Technologies: Node.js, Django, PHP
Databases: SQL, MySQL, MongoDB
Tools & Platforms: Git, GitHub, GitHub Actions(CI/CD)
Hardware: Arduino Uno, IR, RFID, Ultrasonic and other sensors

PROJECTS

- **Bhojon - Web Application (Django, SQLite, Bootstrap)**
Developed a simplified food delivery platform using MTV architecture of Django where users can browse meals, add items to cart and place orders. Role based dashboards for different users. Also integrated a basic chatbot to assist users with menu suggestions and order queries.

- **IMBD - Movie Review Website (PHP, MySQL, HTML/CSS)**
Implemented secure user login, review system, newsletter subscription and movie ticket booking using PHP and MySQL. Dynamic pages for featured movies, auto sliding banners, trailers and coming soon movie listings. Responsive UI.

EDUCATION

- **B.Sc. Computer Science and Engineering** *2021 − 2025*
  BRAC University, Dhaka, Bangladesh CGPA/Percentage: 3.37/4

RESEARCH EXPERIENCE

- **Thesis: ParityGAN**
It is a Fairness Aware Hybrid GAN Architecture developed using cGAN, ResNet DCGAN, SNGAN and a novel Enhanced Temporal Balanced Memory (ETBM) to reduce class imbalance and bias in synthetic image generation. Achieved FID 18.11

- **VAE-MNIST Generator**
Implemented a Variational Autoencoder to generate realistic handwritten digits through learning compressed latent representation of MNIST images. Achieved low reconstruction error (MSE = 0.0223) and stable latent sampling.

- **Human Productivity Prediction using ML**
Built an ML model to predict productivity scores using lifestyle, digital behavior and work patterns. Developed multiple models (Random Forest, XGBoost, LightGBM, MLP) with feature engineering, fairness checks and SHAP explainability. LightGBM achieved the best performance (R^2 = 0.9247).

ACTIVITIES AND ACHIEVEMENTS

- Design Team(Duburi)- Underwater Rover Project, Robotics Club of BRAC University *2023–2024*
- Active Member, BRAC University Computer Club (BUCC) *2021–2025*
- Participant, Photography Course (Residential Semester, BRAC University) *Fall 2022*
- Participant, Bangladesh Chemistry Olympiad (Preliminary Round) *2019*
- Participant, DUET Techfest Robotics Competition (Speed Battle Category) *2017*