Apurba Afiat

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PROFILE STATEMENT

Motivated and detail-oriented Computer Science graduate from BRAC University with a strong foundation in programming, data science, and web development. Skilled in C, Python, MySQL, HTML, CSS, and machine learning, with experience using LaTeX for documentation and Canva for design. Passionate about solving complex problems through innovative and scalable solutions, while continuously learning and adapting to emerging technologies. Eager to apply technical expertise and analytical skills to contribute meaningfully in dynamic environments.

EXPERIENCE

Brainiaxs-IT **Mar '25 – May '25**
Wordpress Developer *Dhaka, Bangladesh*

- Managed end-to-end WordPress website development, including custom themes and plugins, for diverse client requirements.
- Delivered high-performance websites that improved user engagement, with **a 30% increase in average session duration**.
- Utilized WordPress, PHP, JavaScript, HTML, CSS, and MySQL to ensure responsive design and seamless user experience.

TECHNICAL SKILLS

- **Programming Languages:** Python, C, Java
- **AI & ML Tools:** PyTorch, TensorFlow, Keras, Scikit-learn
- **Databases:** MySQL, PHP
- **Designing tools:** Canva
- **Web Development:** HTML, CSS, Javascript
- **Other Expertise:** Git, Data Scraping, Professional Video editing, Microsoft tools(excel, word, pptx)

EDUCATION

BRAC University **Jul '21 – Sep '25**
Bachelor of Science in Computer Science *Dhaka, Bangladesh*

Military Collegiate School Khulna **Mar '21 – May '20**
Science background *Khulna, Bangladesh*

ACHIEVEMENTS

* Project Srijon Civic Engagement Task Completion- Awarded by School of General Education at BRAC University and BRAC Education Programme (2022)
* The Bronze Standard- The Duke of Edinburgh's International Award (2023)
* National English Olympiad- Certificate of Participation (2018)

PROJECTS

Automating the prediction of resturant ratings | *Python, Random Forest, Linear regression, XGBoost* **Dec '24**

· Developed a machine learning-based restaurant rating prediction system to automate and enhance the accuracy of restaurant evaluations. Designed to help diners in Dhaka make informed decisions by analyzing restaurant features and mitigating the impact of biased or paid reviews. The model improves user experience by providing faster, objective, and data-driven ratings, ultimately saving time and optimizing restaurant resource utilization.
· Achieved 79 percent accuracy using Random Forest model .

Parking Management System | *Python, HTML, CSS, PHP, MYSQL* **Sep '23**

· Developed a parking management system to streamline parking allocation and payment processes. The system informs users about available parking slots in real time and facilitates seamless digital payments. Designed to enhance efficiency and reduce congestion, providing a user-friendly solution similar to the university's parking system.

Bank Management System | *C* **Jan '23**

· Built a console-based bank management system to simulate core banking operations including account creation, deposit, withdrawal, and transaction history. Focused on robust file handling and user data security.

Detection of Monkeypox using Deep Learning | *Python, Deep Learning, CNN, TensorFlow* **Feb '25**

· Engineered a deep learning model using Convolutional Neural Networks to classify skin lesions and detect Monkeypox from image data. Achieved promising accuracy by preprocessing datasets and fine-tuning model hyperparameters.

Shell for Linux | *C* **Mar '23**

· Developed a custom shell for Linux that interprets and executes user commands with support for basic built-in functions and process handling. Implemented piping, redirection, and background process execution.

Shooting Game | *Python* **May '23**

· Created a 2D shooting game using Python's Pygame library. Included player movement, scoring system, collision detection, and increasing difficulty levels for enhanced gameplay experience.

Ball Catching Game | *Python* **Jun '23**

· Designed an interactive ball catching game using Python and Pygame. Focused on smooth controls, intuitive design, and real-time scoring logic to improve reflex-based skills in players.

Digital Clock | *Python* **Jul '23**

· Implemented a functional digital clock using Tkinter in Python, featuring real-time display with 12/24-hour format, user-friendly GUI, and customizable color themes.

LEADERSHIP / EXTRACURRICULAR

BRAC University Community Service Club **Nov '23 – Dec '24**
Vice President *BRAC University*

· **Led 300 members to successfully organize community service initiatives, including blood donation drives, Ramadan ration distributions, book drives, saline and drinking water distribution during heatwave, organsing awareness seminar, vaccination to stray animals which impacted numerous beneficiaries.**

· Collaborated with PRAN, BRAC University Counseling and Wellness Center, Bangladesh Thalassemia Samity, and PAW Foundation to enhance outreach efforts and deliver impactful social welfare programs..

BRAC University Community Service Club **Feb '23 – Oct '23**
Director of Events and Marketing *BRAC University*

· Directed event planning and marketing efforts, ensuring seamless coordination and execution of initiatives that aligned with the club's mission. Managed logistics, conceptualized impactful events, and facilitated engagement to maximize outreach and participation.

LEAD Academy **Mar '24 - Dec '24**
Campus Ambassador *BRAC University*

· Provided guidance and facilitated access to valuable resources and courses for students students who are interested in exploring specific subjects to help them understand the educational needs and career paths.

Other Volunteering Activities

- Volunteer in "Importance of Peace to Save Our Environment with Dr Glenn T Martin" Seminar by Peace Cafe BRAC University and BRAC University Community Service Club — Certificate of Appreciation (2022)

- Volunteer in Yoroboki Utshob: Japan and Bangladesh Cultural Exchange Program — Certificate of Appreciation (2022)

- Volunteer in "Save A Drop 2.0" Blood Donation Drive by BRAC University Community Service Club and Red Crescent Society Bangladesh — Certificate of Appreciation (2022)

INTERESTS

- Exploring advancements in machine learning and its applications.
- Designing intuitive and user-centric UI/UX interfaces to enhance user experience.
- Analyzing data to derive insights and drive informed decision-making.