# Atiar Osman

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## PROFILE

Computer Science graduate with expertise in AI, data science, and full-stack development. Proven experience developing data-driven solutions and optimizing platforms through collaborative projects. Combines technical proficiency with a problem-solving mindset to deliver innovative and scalable implementations.

## EDUCATION

**BRAC University,** *Bachelor's in Computer Science*                                      10/2020 – 04/2025
School of Data and Sciences                                                                Dhaka, Bangladesh

**Cumilla Victoria Government College,** *Higher Secondary*                    08/2017 – 08/2019
                                                                                           Cumilla, Bangladesh

## SKILLS & INTERESTS

- **Programming Languages:** Python, C++, PHP, HTML5, CSS.
- **Frameworks:** MERN Stack, Laravel, Bootstrap, Django.
- **Front End:** HTML, CSS, CSS3, TailwindCSS, Bootstrap, React.
- **Tools & Technologies:** Git, GitHub, MySQL, XAMPP, Cisco Packet Tracer, WordPress, Microsoft Office, Overleaf.
- **Platforms & Environments:** Google Colab, Kaggle, VS Code, Linux, Arduino, Raspberry Pi, Unity.
- **Libraries and Tools:** PyTorch, Stable Baseline 3, TensorFlow, NLTK, spaCy, Sklearn, Pandas, Numpy.
- **Soft Skills:** Event Management, Editing, Leadership, Communication, Teamwork, Strategic Planning, Photography, Cinematography.
- **ML Architectures:** CNN, YOLO, UNet.

## PROJECT EXPERIENCE

**Adult Tooth Segmentation,** *Developed a proprietary Deep CNN model achieving 83% accuracy in detecting and classifying dental diseases from panoramic X-rays, with an integrated tool for accurate teeth segmentation.* ⊘

**Laptop Price Predictor,** *Built a price prediction model and application using Random Forest, Linear Regression, and Voting Regressor, with proper data processing, feature extraction, and engineering on a Kaggle dataset.* ⊘

**Unveiling Market Manipulation: Detection Strategies and Implications for Stock Markets** ⊘

**Diabetes Prediction,** *Developing multiple machine learning models for the prediction of Diabetes* ⊘

**Parkinson's Disease Detection,**
*Developed a Parkinson's disease detector using machine learning libraries such as Pandas, Sklearn, and Numpy* ⊘

**Salary Management System,**
*Created a basic database system to handle salary management in a small organization using PHP, CSS, and MySQL.* ⊘
Created a basic database system to handle salary management in a small organization using PHP, CSS, and MySQL.

**Online E-commerce Website,** *Created an e-commerce website using HTML, XAMPP, CSS, Bootstrap, and MySQL.* ⊘

**Anime 471: A streaming website with manga reading,** *Created a website using MERN stack where registered users can chat with others, shop from the merchandise store, and create a wishlist of their favorite items.* ⊘

**Income Tax Calculator,** *Created a tool using MERN stack that calculates income tax based on user input, offering real-time results with a clean, responsive interface.* ⊘

**Space Defender,** *A 2D game using OpenGL* ⊘

**BRAC University Undergraduate Thesis - Fire Brigade Response Enhancement Using Drone Swarms: Comparative Analysis and Beyond.**

## EXTRACURRICULAR ACTIVITIES

**Perfume Emporium BD,** *Sales Representative* ⊘                                         11/2023 – 02/2025
                                                                                           Dhaka, Bangladesh

**Bangladesh Youngster Social Organization (BYSO),** *Founding Member* ⊘        07/2015
                                                                                           Comilla, Bangladesh

**BRAC University Computer Club (BUCC).,** *Senior Executive at the Event Management Department* ⊘    2021 – 2023
                                                                                           Dhaka,Banladesh

**Robotics Club of BRAC University (ROBU),** *Former member of the Strategic Planning Department* ⊘    2021 – 2023
                                                                                           Dhaka, Bangladesh

**AI+ Prompt Engineer Level 1, AI CERTs** ⊘

## REFERENCES

**Dr. Jannatun Noor Mukta**, *Associate Professor, CSE & Director, BSDS,* United International University
jannatun@cse.uiu.ac.bd

**Dr. Moiyen Zalal Chowdhury**, *Assistant Professor Department of Economics and Social Sciences,* BRAC University
moiyen.chowdhury@bracu.ac.bd