MD. AZAZ AHAMED

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EXPERIENCE

Thesis:

Malware Detection in Android Devices Using a Hybrid Method   **BRAC University**
March 2024-January 2025

- Engineered data preprocessing pipeline, balancing class distribution using synthetic oversampling and feature selection.
- Built and optimized multiple machine learning models (Random Forest, XGboost, CATboost, etc.) to classify malware with high accuracy
- Conducted an in-depth performance evaluation using ROC AUC, precision, recall, and F1-score metrics.
- Delivered insights on Android security vulnerabilities and mitigation strategies to academic researchers and industry experts.
- Managed cross-functional collaboration with supervisors and faculty, ensuring alignment with cybersecurity research goals.
- Contributed to developing scalable and interpretable detection mechanisms for real-world cybersecurity applications.

Project:

Online Payment Fraud Detection.   *August 2024*

- Performed quantitative analysis on a large dataset (100,000+ daily) using Python to identify patterns and classify data.
- Engineered data preprocessing pipelines, including handling key values, encoding categorical variables, and feature scaling, ensuring data integrity.
- Developed and trained machine learning models (KNN, Linear Regression, Naive Bayes) to classify credit card approvals with optimized accuracy.
- Conducted model evaluation and comparison using precision, recall, F1-score, and confusion matrices.
- Automated key processes in data preparation and model training, reducing manual workload by 30%.

Food Delivery System   *April 2023*

- Developed a web-based food delivery platform using HTML5 for the front end.
- Implemented user registration, menu browsing, order placement, and real-time tracking features.
- Optimized SQL queries to improve database performance and response time.
- Designed a user-friendly interface for seamless navigation across devices.

EDUCATION, HONORS AND TECHNICAL SKILLS

Bachelor of Science In Computer Science

BRAC University.   *July 2020*

Front-End Development Skills

- Built responsive websites using **HTML5, CSS3, and JavaScript.**
- Developed dynamic UI features with JavaScript event handling and DOM manipulation.
- Designed clean, user-friendly layouts following **modern web design principles**.
- Created mini-projects showcasing **JavaScript logic, local storage, and interactive UX**.
- Designed and developed interactive web banners using **GSAP**, implementing smooth animations and transitions to enhance user engagement.
- Optimized banner performance by minimizing animation load times and ensuring efficient browser rendering.

Cybersecurity, Ethical Hacking, and Network Engineering

- Skilled in WPA/WPA2 security analysis, web application security, and post-connection attack strategies.
- Experienced with ethical hacking tools like Wireshark, Aircrack-ng, and Metasploit.
- Skilled in configuring Ethernet switching, VLANs, STP, and VTP.
- Website Enumeration & Reconnaissance: Ping, Host, Nslookup, WhatWeb, Nmap, Nikto.

Operating System: Kali, Ubuntu, Porteus.

REFERENCES

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