Ahsan Farabi

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SUMMARY

I'm passionate about technology and creating innovative solutions. As a full-stack web developer skilled in Laravel, I build efficient and scalable websites. My interest in Natural Language Processing (NLP) drives my research in solving real-world problems. With strong communication and project management skills, I ensure smooth collaborations and successful outcomes.

SKILLS

- **Programming Languages:** C, C++, Java, Python
- **Scripting Languages:** BASH, HTML, PHP, CSS, JavaScript, SQL, LaTeX
- **Machine Learning:** Scikit-learn, Matplotlib, Numpy, Pandas, NLTK, Tensorflow, OpenCV
- **Technologies:** Node.js, Laravel, Tailwind, Ajax
- **Design Tools:** Logisim, CISCO Packet Tracer, Figma
- **Project Management Tool:** Jira

EDUCATION

United International University | 2022 - Present
Bachelor of Science in Computer Science and Engineering

- **Relevant Courses:** Calculus, Linear Algebra, Vector, Statistics, Structured Programming Language, Object Oriented Programming, Data Structure and Algorithms, Artificial Intelligence, Database Management System, Data Mining, Computer Architecture
- **CGPA:** 3.69 (Running)

Uttara Model College | 2018 - 2020
Higher Secondary Certificate, Science

- **GPA:** 5.00

Uttara Model School | 2016 - 2018
Secondary School Certificate, Science

- **GPA:** 5.00

EXPERIENCE

Undergraduate Teaching Assistant | 2024 - Present
Courses: Object Oriented Programming for Data Science

- Assisted faculty in grading assignments, preparing course materials, and managing lab sessions by assisting students with debugging and problem-solving.
- Provided counseling hours for students before exams, offering help and clarifications to boost their confidence and performance.

AWARDS & CERTIFICATIONS

- **1st Runner Up**, Database Management System Poster, CSE Project Show Fall 23
- **4th Runner Up**, Database Management System, CSE Project Show Fall 23
- **2nd Runner Up**, System Analysis and Design, CSE Project Show Summer 24
- **2nd Runner Up**, Advanced Object Oriented Programming, CSE Project Show Fall 24
- **Academic Scholarship** Based on Trimester Results (50% 3 times, 25% 3 times)
- **Machine Learning Specialization** by Stanford University
- **Git and Github** by Google

ACADEMIC PROJECTS

Unisales - A B2B marketplace *Github Link*
Built a B2B marketplace connecting farmers and companies to stabilize market prices and transactions.
- Built with PHP, JavaScript, HTML, Bootstrap, and AJAX, ensuring a responsive and interactive user experience.
- Implemented a bidding system that allows both farmers and companies to negotiate optimal prices.
- Designed a powerful order management & logistics system, streamlining deliveries and reducing delays.

Blogpotro - A Social Media Platform *The Financial Express News*
Developed an AI-powered social media platform using Laravel and Tailwind that enables bloggers to monetize content effortlessly while enhancing engagement.
- Implemented AI-generated blog suggestions for boosting user engagement.
- Integrated collaboration features, version control for blogs, allowing users to track and manage content edits seamlessly.
- Developed ad management & subscription-based monetization, providing multiple revenue streams for content creators.

UIU - University Plat-former Game *Github Link*
Developed a 2D platformer game using JavaFX to help new students navigate university life in an engaging and interactive way.
- Designed gameplay levels inspired by real university experiences, helping freshers adapt to campus life.
- Introduced various puzzle games within levels, encouraging problem-solving and critical thinking.
- Integrated a scoring system, allowing players to unlock achievements and gain insights into activities.

RESEARCH PROJECTS

Emotion Recognition System (ERS) *Github Link*
Developed a deep learning-based emotion recognition system for real-time facial expression analysis.
- Implemented a CNN-based model to classify emotions from facial images.
- Achieved 61% accuracy on FER2013 and real-world datasets.
- Deployed using OpenCV, enabling real-time emotion detection via webcam.

Cyber Bully Detection System (CBDS) *Github Link*
Built a cyberbullying detection system to classify hate speech and offensive content.
- Used 10 traditional models for robust text classification.
- Generated synthetic training data using LLM-based augmentation.
- Achieved a good F1-score on real-world Twitter datasets.

Network Intrusion Detection System (NIDS) *Github Link*
Designed a machine learning-based intrusion detection system to enhance cybersecurity.
- Utilized ensemble techniques like Boosting and Bagging for anomaly detection.
- Trained on NSL-KDD dataset, achieving an 99% detection accuracy.
- Performed feature engineering to improve model efficiency.

REFERENCES

Md. Tarek Hasan
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