Anam Ibn Jafar

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Education

United International University — *Madani Ave, Dhaka 1212*

BSc in Computer Science and Engineering — *June 2019 - Sept 2023*

- **CGPA:** 3.78/4.0
- **Credits Completed:** 137
- **Courses:** Software Engineering, Object-Oriented Programming, Data Structures and Algorithms, Discrete Math, Operating System, Computer Networking, Computer Security, Computer Architecture, Machine Learning, Artificial Intelligence etc.

Dhaka City College — *R/A, Road No. 2, Dhaka 1205*

Higher Secondary School Certificate — *2016 - 2018*

- **GPA:** 4.58/5.00
- **Group:** Science

Hajigonj Al-Kawsar School — *Makimabad, Hajigonj, Chandpur*

Secondary School Certificate — *2014 - 2016*

- **GPA:** 5.00/5.00
- **Group:** Science

Work Experience

SJ Innovation LLC — *House - 281/A (Level - 1), Road - 19/C, New DOHS, Mohakhali, Dhaka - 1206*

Software Engineer Intern — *Nov 2023 - Current*

- Participated in an Electronic Medical Record (EMR) project focused on enabling doctors to manage records, schedule appointments, and maintain up-to-date patient information.
- Contributed to creating an AI assistant that recommends suitable doctors based on specific issues and their availability, facilitating appointment bookings.
- **Skills :** CakePHP, MySQL, Git, Prompt Engineering.

United International University — *Madani Ave, Dhaka 1212*

Undergraduate Assistant(UA) — *Dec 2021 - Sept 2023*

- Supporting instructors in delivering lessons.
- Grading assignments and providing feedback.
- Proctoring exams when needed.
- **Courses :** Software Engineering, Data Structure and Algorithms I and II, Structured Programming Language.

Research Experience

An Attention Guided Deep Learning based Network with Bayesian Optimization for Forest Fire Classification and Localization

Co-author — *Sept 2022 - April 2023*

United International University

- Collaborated with a four-person team to develop a CNN model that utilised EfficientNetB7 as a foundation to improve the accuracy of wildfire classification.
- Achieved a remarkable increase in accuracy through hyperparameter fine-tuning using Bayesian optimization, with the model achieving 96-98% accuracy in forest fire classification
- **Technical Skills:** Python with Tensorflow, NumPy, Matplotlib, Pandas, Scikit-learn, Git.
- **Soft Skills:** Teamwork, Communication, Presentation skills.
- **Status :** published, link

Forest fire segmentation using modified deeplabv3+

Co-author   *June 2023 - Aug 2023*

United International University

- The objective of this research project is to significantly modify Deeplabv3+ architecture to get better performance in Forest Fire segmentation task
- **Technical Skills:** Python with Tensorflow, NumPy, Matplotlib, Pandas, Scikit-learn, Git.
- **Soft Skills:** Teamwork, Communication.
- **Status :** On going

Optimizing E-waste Recycling Through Categorization

Co-author   *June 2023 - Nov 2023*

United International University

- The objective of this research project is to efficiently categorize e-waste
- **Technical Skills:** Python with Tensorflow, NumPy, Matplotlib, Pandas, Scikit-learn, Git.
- **Soft Skills:** Teamwork, Communication.
- **Status :** Accepted, Awaiting publication

Notable Projects

SecureLink Alert

United International University   *Feb 2022 - Apr 2022*

- Developed an ML model to identify phishing URLs.
- Conducted data preprocessing, addressing duplicates, null values, and other cleanup tasks on the dataset.
- Utilized feature extraction and engineering to identify key features for phishing URL detection.
- Evaluated the performance of various machine learning models, including Logistic Regression, K-Nearest Neighbors (KNN), Naive Bayes, and Random Forest. Concluded that the Random Forest model exhibited superior performance in detecting phishing URLs.
- Designed a user-friendly webpage to showcase the trained model's functionality, enabling users to input a URL and receive real-time feedback on its legitimacy.
- **Technical Skills:** Python with Tensorflow, NumPy, Pandas, Matploptlib, Django
- **Soft Skills:** Time Management, Presentation skills, Report writing.

Liver Disease Prediction

United International University   *Feb 2022 - Apr 2022*

- Conducted dataset analysis for feature selection and engineering to identify optimal features for accurate predictions.
- Implemented and trained various ML models, with Random Forest emerging as the most effective.
- **Technical Skills:** Python with Tensorflow, NumPy, Pandas, Matploptlib.
- **Soft Skills:** Report writing, Presentation Skills.

ForFarmer: Crop Trading, Learning, and Blogging Platform for Farmers

United International University   *Nov 2021 - Dec 2021*

- Conducted an in-depth analysis of industry benchmarks to inform feature selection and project scope.
- Maintained a structured Software Development Life Cycle (SDLC) methodology throughout the project to ensure effective planning, development, testing, and deployment of the solution.
- Designed an efficient database to support the project's data needs
- Implemented the project using the Django framework. Successfully ran the project on a local server for testing and development purposes.
- Created comprehensive project documentation using MKDocs, providing clear and organized insights into the project's architecture, functionality, and usage.
- **Technical Skills:** Django, HTML, CSS, MKDocs.
- **Soft Skills:** Presentation skills, Teamwork, Logical Thinking.

Virtual Home Manager: Rent, Hire, and Dine at Your Fingertips

United International University   *Feb 2021 - Apr 2021*

- Designed and managed a database to support multiple functionalities.
- Developed the backend of the project using PHP for system functionality.
- Created an integrated platform allowing users to find home rentals, hire caretakers, and order food services.
- **Technical Skills:** PHP, SQL HTML, CSS.
- **Soft Skills:** Report writing, Presentation Skills.

Dress Code- A virtual try-on platform

United International University   *July 2023 - Aug 2023*

- Designed E-commerce site featuring GAN-based virtual try-on for realistic product visualization.
- **Technical Skills:** HTML, CSS.
- **Soft Skills:** Report writing, Presentation Skills, Figma.

Skills

Programming	Python (Pandas, Tensorflow, NumPy etc.), Django, C/C++, HTML/CSS, MySQL, CakePHP.
Miscellaneous	LaTeX(Overleaf/R Markdown), Figma, Microsoft Office, Git.
Soft Skills	Teamwork, Documentation, Engaging Presentation.

Achievements

Scholarship, Achieved both full and half-free tuition waiver based on the merit list in every semester at UIU

Languages

English	Professional proficiency
Bangla	Native proficiency

References available upon request.