

# Md. Asraful Sharker Nirob

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## PROFILE SUMMARY

After completing my undergraduate degree in Computer Science and engineering, I have been involved in various academic and co-curricular activities. I am currently a Research Assistant at the Health and Informatics Lab of Daffodil International University (DIU). I take part in deep learning and machine learning-related projects with professors from other universities to help in the growth of research in this domain. I have published five research papers in different international peer-reviewed journals and conferences. I have also worked as a Junior Software Engineer for about a year and as a Student Associate part-time during my university years. I have good graphic design skills and developed my verbal skills while serving in different welfare societies in Bangladesh.

## RESEARCH INTERESTS

- Computer Vision
- Machine Learning
- Big Data
- Big Data
- NLP

## CORE COMPETENCIES

- Deep Learning
- Data Collection
- Reporting
- Team Work

## SKILLS

- **Programming Languages:** Python, C, Java, C++, JavaScript
- **Machine Learning, Deep Learning, and Visualization Libraries:** Pandas, NumPy, Keras, TensorFlow
- **Web Development:** HTML, CSS, JavaScript, React JS
- **Editor/IDE:** VSCode, Code Blocks, Jupyter Notebook
- **Office Packages:** MS Excel, MS Word, MS PowerPoint
- **Graphics Design:** Adobe Illustrator, Adobe Photoshop
- **Languages:** English, Bengali

## EXPERIENCE

### Undergraduate Research Assistant

June 2024 – Present

*Health and Informatics Lab*

*DIU, Bangladesh*

- Collected different kinds of datasets for model training from Bangladesh
- Data processing like segmentation, feature extraction, histogram
- Applied multiple models like EfficientNet, ResNet, Inception, and so on
- Developed model like ADDNet-30

### Junior Software Engineer - Web

May. 2023 – June, 2023

*Increments Inc*

*Uttara, Dhaka, Bangladesh*

- Worked with React.JS
- Making responsive web template with vanilla HTML, CSS, JS
- Utilized version control systems such as Git for code management and collaboration

### Student Associate

May 2022 – April 2023

*CDC, Daffodil International University*

*Ashulia, Savar, Dhaka*

- Worked with the Core team of CDC
- Worked with Adobe Illustrator, PhotoShop, Spreadsheet, Docs, and so on

## EDUCATION


**Daffodil International University**

*Bachelor of Computer Science and Engineering, CGPA: 3.70 (Scale 4.00)*

Savar, Dhaka, Bangladesh

January 2020 – January 2024

## PUBLICATIONS & PROJECTS

 **ORCID iD** —  **Google Scholar**

- T. Khatun, **M. A. S. Nirob**, P. Bishshash, M. Akter, and M. S. Uddin, “A Comprehensive Dragon Fruit Image Dataset for Detecting the Maturity and Quality Grading of Dragon Fruit”, *Data in Brief*, p. 109936, Dec. 2023, doi: 10.1016/j.dib.2023.109936.
- P. Bishshash, **M. A. S. Nirob**, M. H. Shikder, A. H. Sarower, T. Bhuiyan, and S. R. H. Noori, “A comprehensive cotton leaf disease dataset for enhanced detection and classification”, *Data in Brief*, pp. 110913–110913, Sep. 2024, doi: 10.1016/j.dib.2024.110913.
- S. R. Adapa, **M. A. S. Nirob**, S. Bhatt, M. Yerram, AP Nivas, “Enhancing Credit Card Fraud Detection: A Novel Approach with Random Forest and Behavioral Biometrics”, *International journal for research in applied science and engineering technology*, vol. 12, no. 3, pp. 2858–2866, Mar. 2024, doi: 10.22214/ijraset.2024.59510.
- M. Assaduzzaman, O. Islam, **M. A. S. Nirob**, Md. M. H. Mim, and A. Mahmud, “A Benchmark Dataset for Analyzing Hematological Responses to Dengue Fever in Bangladesh”, *Data in Brief*, pp. 111030, Oct. 2024, doi: 10.1016/j.dib.2024.111030.
- **M. A. S. Nirob**, M. Dutta, P. Bishshash, and Md. Assaduzzaman, “Malnutrition Prediction among under-five children using Machine learning technique”, Accepted for publication in *Taylor and Francis Book of BIM 2023*.
- P. Bishshash, **M. A. S. Nirob**, S. Sharmin, and M. Z. Hasan, “A Comprehensive Aloe Vera Image Dataset for Detecting Diseases in Agricultural Fields”, Under Review at *Data in Brief*.
- **M. A. S. Nirob**, P. Bishshash, M. B. Ayan, T. Khatun, S. Sharmin, and M. Z. Hasan, “A Comprehensive Annotated Image Dataset for Deep Learning Analysis of Eggplant Leaf Diseases”, Under Review at *Data in Brief*.
- **M. A. S. Nirob**, P. Bishshash, T. Khatun, S. Sharmin, M. Z. Hasan, and M. S. Uddin, “Attention-Based MultiScale Fusion for Brain Tumor Classification with Explainable AI”, Submitted to 6th IEEE International Conference on Sustainable Technologies for Industry 5.0.
- A. K. M. Siam, **M. A. S. Nirob**, P. Bishshash, A. Ghosh, M. Ashikuzzaman, and M. B. Ayan, “Predicting Dengue Fever Outbreaks Using Advanced Machine Learning and Deep Learning Models”, Submitted to 6th IEEE International Conference on Sustainable Technologies for Industry 5.0.

## ON GOING WORKS

**Develop a deep learning multi-scale fusion network model**

September 2024 – Present

- Aim: To utilize a multi-scale model for the classification of eye diseases, enhancing predictive accuracy and enabling early detection.

**Customized hybrid deep learning model**

October 2024 – Present

- Aim: To utilize a hybrid deep learning model for the classification of cotton leaf diseases.

## CO-CURRICULAR ACTIVITIES

**Assistant General Secretary | Computer And Programming Club**

January 2022 – December 2023

- Organized events such as C-Khoon and Unlock the Algorithm to engage students in competitive programming.
- Facilitated coding workshops for freshers, helping them to develop their programming skills and confidence.
- Mentored junior members by providing guidance on coding best practices and project development.

## REFERENCES

### • Dr. Md Zahid Hasan

Assistant Professor, Daffodil International University, Dhaka, Bangladesh.

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### • Tania Khatun

Assistant Professor, Daffodil International University, Dhaka, Bangladesh.

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