

SUMAITA BINTE SHORIF

Dhaka, Bangladesh

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RESEARCH INTEREST

Machine Learning, Data Science, Computer Vision, Image Processing, Deep Learning, Digital Health, Artificial Intelligence, Intelligent Systems Development

EDUCATIONAL QUALIFICATION

Jahangirnagar University

Feb 2019 – April 2024

B.Sc (Hons) in Computer Science and Engineering (Last Semester)

CGPA: 3.79/4.00 (Rank: 3/59)

(Awarded Merit Scholarships in All Semesters)

Research Project: Classification of Butterfly Images Using Deep Learning and Bag-of-Feature

TEST SCORE

IELTS Overall Band Score: 7.5 (R-7.5 L-7.5 S-7.5 W-6.5), CEFR Level: C1

Oct 28, 2023

SELECTED PUBLICATIONS

1. Image Watermarking Using Discrete Wavelet Transform and Singular Value Decomposition for Enhanced Imperceptibility and Robustness. Mahbuba Begum, **Sumaita Binte Shorif**, Mohammad Shorif Uddin, Jannatul Ferdush, Tony Jan, Alistair Barros and Md Whaiduzzaman. Published in **Algorithms, MDPI**, January 12, 2024. [\[Paper\]](#)
2. MultiResEdge: A Deep Learning-Based Edge Detection Approach. Kaniya Muntarina, Rafid Mostafiz, Fahmida Khanom, **Sumaita Binte Shorif**, Mohammad Shorif Uddin. Published in **Intelligent Systems with Applications, Elsevier(WoS, Scopus, Q1)** vol. 20, November 2023. [\[Paper\]](#)
3. A Dataset for Successful Recognition of Cucumber Diseases. Nusrat Sultana, **Sumaita Binte Shorif**, Morium Akter, Mohammad Shorif Uddin. Published in **Data in Brief, Elsevier(WoS, Scopus, Q2)** vol. 49, August 2023. [\[Paper\]](#)
4. Notes on edge detection approaches. Kaniya Muntarina, **Sumaita Binte Shorif**, Mohammad Shorif Uddin. Published in **Evolving Systems, Springer(WoS, Scopus, Q2)**, March 2021. [\[Paper\]](#)
5. Computer Vision-Based Algorithms on Zebra Crossing Navigation. **Sumaita Binte Shorif**, Sadia Afrin, Anup Majumder, Mohammad Shorif Uddin. Published in the Proceedings of International Joint Conference on Advances in Computational Intelligence (**IJCACI 2021**), 23-24 October 2021, New Delhi, India. **Algorithms for Intelligent Systems, Springer**, pp. 319-328. [\[Paper\]](#)
6. Medicinal Plant Recognition from Leaf Images Using Deep Learning. Md. Ariful Hassan, Md. Sydul Islam, Md. Mehedi Hasan, **Sumaita Binte Shorif**, Md. Tarek Habib, Mohammad Shorif Uddin. Published in Computer Vision and Machine Learning in Agriculture, Volume 2, **Springer**, pp. 137-154, 2022. [\[Paper\]](#)
7. Role-Framework of Artificial Intelligence in Combating the COVID-19 Pandemic. Mohammad Shorif Uddin, **Sumaita Binte Shorif**, Aditi Sarker. Published in Vision, Sensing and Analytics: Integrative Approaches, **Springer**, pp. 357-370, 2021. [\[Paper\]](#)
8. Robots and Drones in Applications - A Survey. Rabeya Basri, Fahmida Islam, **Sumaita Binte Shorif**, Mohammad Shorif Uddin. Published in Computer Vision and Machine Learning in Agriculture, **Springer**, pp. 9-30, 2021. [\[Paper\]](#)
9. Machine Vision-Based Fruit and Vegetable Disease Recognition: A Review. Md Tarek Habib, Md Ariful Islam Arif, **Sumaita Binte Shorif**, Mohammad Shorif Uddin, Farruk Ahmed. Published in Computer Vision and Machine Learning in Agriculture, **Springer**, pp. 143-157, 2021. [\[Paper\]](#)
10. Deep Learning-Based Essential Paddy Pests' Filtration Technique for Economic Damage Management. Md Zahid Hasan, Nahid Zeba, **Sumaita Binte Shorif**, Morium Akter. Published in Computer Vision and Machine Learning in Agriculture, **Springer**, pp. 51-65, 2021. [\[Paper\]](#)

TECHNICAL SKILLS

Competitive Programmer in C/C++

Digital Artist, Proficient at creating vector logos and graphic design

Languages: Python, C, C++, Java, SQL, Javascript, HTML, CSS, MATLAB, Prolog

Machine Learning: PyTorch, Keras, Tensorflow, OpenCV

Developer Tools: VS Code, Android Studio, LATEX, PyCharm, Django, Weka

Illustration Tools: Proficient in Adobe Illustrator, Adobe Fresco

SELECTED PROJECTS

RecycloBD: One man's trash is another man's treasure [↗](#) | **Android Studio: Java** Oct 2020

- A mobile app that facilitates turning trash into treasure. The aim of this app is to ensure proper waste recycling and management on both personal and industrial level.

Dhar Hobe - A Bangladeshi Product Renting System [↗](#) | **Python, Django, Bootstrap** March 2024

- Developed a web app which simplifies life with our product renting system "Dhar Hobe". Borrow what you need, lend what you have!

SELECTED AWARDS AND ACHIEVEMENTS

- **1st Runner Up**, Power Up Inter-University Online Business Plan Competition 2020 organized by Varendra University, Bangladesh - Jan, 2021.
- **Shortlisted Participant**, made it to the top 100 teams out of 3700+ teams from all over the country in **ideaTHON Contest 2020** organized by Startup Bangladesh — Innovation, Design Entrepreneurship Academy (iDEA) — Bangladesh Computer Council — ICT Division -Nov, 2020
- **Jahangirnagar University Merit Scholarship:** Awarded **scholarships** for academic excellence from among 420 students from session 2019 to present.
- **Champion**, BdOSN Dev Mania 2020, **Hackathon** Organized by: BdOSN (Bangladesh Open Source Network), October 04 2020 -Oct 07, 2020
- **Honourable Mention**, PrivaShe Hacks'20, Hackathon Organized by: PrivaC -July, 2020
- Participated in **100+** Prestigious Competitive Programming Contests and obtaining good ranks (both onsite and online) including **IEEE Xtreme 14.0**, **ICPC Dhaka Regional Preliminary Contest 2020** and so on.

SELECTED CO-CURRICULAR ACTIVITIES AND SERVICES

- Created hundreds of **digital artwork and logo designs** [↗](#)
- **Creative Development Secretary— Jahangirnagar University Computer Club:** [↗](#)
Directed event operations, media engagements of the organization. March 2020 - Present
- **Alpha Ambassador** at Microsoft Student Learn Ambassadors. April 2021 - July 2022
- **Campus Ambassador**, Bangladesh 2021 at Youth Opportunities. Jan 2021 - Dec 2021
- **Bangladesh National Television(BTV)** Parliamentary English Debate Speaker, TV program no. 3412/7, 28 Sept 2016.
- Medium Article published in 2020- **"Is Art Generated by Artificial Intelligence Really Art?"** [↗](#)
- **IEEE Student Member Bangladesh Section**, Member Number #96794082

SELECTED CERTIFICATIONS

Introduction to Cybersecurity by Cisco [↗](#)

Basic Elements of Design: Design Principles and Software Overview- Coursera [↗](#)

Networking Academy Learn-A-Thon 2020 by Cisco [↗](#)