SUMAITA BINTE SHORIF

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RESEARCH INTEREST

Computer Vision, Image Processing, Artificial Intelligence, Deep Learning, Machine Learning and Intelligent Systems Development

EDUCATIONAL QUALIFICATION

Jahangirnagar University   **Feb 2019 – Present**

4th Year B.Sc. in Computer Science and Engineering Student   **CGPA: 3.76/4.00 (Rank: 3/59)**
(Awarded Merit Scholarships in All Semesters till now)
Ongoing 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**

PUBLICATIONS

- MultiResEdge: A Deep Learning-Based Edge Detection Approach. Kanija 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]

- 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]

- Notes on edge detection approaches. Kanija Muntarina, **Sumaita Binte Shorif**, Mohammad Shorif Uddin. Published in **Evolving Systems, Springer(WoS, Scopus, Q2)**, March 2021.[Paper]

- 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]

- 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]

- 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]

- 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]

- 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]

- 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]

- Vehicle Detection and Its Speed Measurement. Morium Akter, Jannatul Ferdous, Mahmuda Najnin Eva, **Sumaita Binte Shorif**, Sk. Fahmida Islam and M. Shorif Uddin. Published in the Proceedings of of International Conference on Advances in Energy Management **(ICAEM 2019)**, 20-21 December 2019, Jodhpur, India, **Algorithms for Intelligent Systems, Springer**. [Paper]

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.

Recovid: Let's Recover from Covid-19 ↗ | **Android Studio: Java**   **July 2020**
- Developed a **dynamic** peer to peer data sharing platform that aims at making personal and community life easier not just for patients but also doctors, volunteers and connecting people who recovered from Covid-19.
- Focuses on community engagement upon helping the community create an easier way of ensuring health, communication, food subscription as well safe blood and plasma donation.

Exam Bill Management System ↗ | **Python, Django, Bootstrap**   **Sept 2022**
- Developed a web app which enables the faculty and educators of Jahangirnagar University to keep an organized track of all invoice related activities taking place within exam committees and keep a tab on the overall expenses.

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 CO-CURRICULAR AND VOLUNTEERING ACTIVITIES

- Created hundreds of **digital artwork and logo designs** ↗

- **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?"** ↗

- **Alpha Ambassador** at Microsoft Student Learn Ambassadors. April 2021 - July 2022

- **Campus Ambassador**, Bangladesh 2021 at Youth Opportunities. Jan 2021 - Dec 2021

- **IEEE Student Member Bangladesh Section**, Member Number #96794082

- **Bangladesh Ambassador** for Microfest++ organized by Microsoft Student Partners Pakistan held on 29-31 May 2020. Ambassador code: MS-1154

- **Management Team Member and Medium subgroup lead** at Voice of Code by Microsoft Student Partners. May 2020- June 2021

- **Creative Development Secretary**, Jahangirnagar University Computer Club: Directed event operations, media engagements of the organization.

- **Former Writer** at Writers Club at Voice of Code by Microsoft Student Partners

- **Participant**, Workshop on Debate and Presentation by JUDO (Jahangirnagar University Debate Organization). 6 March 2019

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 ↗