

Curriculum Vitae – Yousuf Rayhan Emon

GENERAL INFORMATION

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EDUCATION

2024-Cont **MSc in CSE (Major in Data Science)** – *Daffodil International University, Dhaka, Bangladesh*
Thesis title: Self-Supervised Hybrid CNN-ViT Model with Explainable AI for Lung Cancer Detection from Medical Images.
CGPA: 3.94 out of 4.00

2020-2023 **Bachelor's in Computer Science & Engineering** - *Daffodil International University, Dhaka, Bangladesh*
Thesis title: DeRefIdm: A Decentralized Refugee Identification and Management Using Smart Contracts
CGPA: 3.87 out of 4.00

2016-2017 **Higher Secondary Certificate (Science)**- Bangladesh Noubahini School and College, Khulna, Bangladesh
GPA: 4.75 (Out of 5)

2014-2015 **Secondary School Certificate (Science)** – Rupdia Welfare Academy, Jashore, Bangladesh
GPA - 5.00 (Out of 5)

EXPERIENCES

2024 - Cont. **Graduate Research Assistant**
4IR Research Cell, Daffodil International University (DIU) – Dhaka, Bangladesh

2023 - 2024 **Teaching Assistant**
Department of CSE, Daffodil International University (DIU) – Dhaka, Bangladesh

2023 - 2023 **Instructor (Blockchain Development)**
Cyber Security Club, Daffodil International University (DIU) – Dhaka, Bangladesh

Course Developing and Subject Teaching Experience

Daffodil International University- 4IR Research Cell

Responsibilities:

Micro-Credential Course Development for BSc Students – 4IR Research Cell

Courses

- Blockchain Development for Secure Transactions (Developed an industry-focused course on blockchain applications for secure data exchange and financial transactions.)
- Computer Vision for Real-World Applications (Developed a course integrating deep learning techniques for image processing and object recognition.)

Published book Chapters

Year	Title	Chapter Name
2024	ব্যবহারিক ও গবেষণায় ব্লকচেইন ডিজিটাল নিরাপত্তার চাবি, <i>Muktodhara Prokashoni – DIU Press, ISBN 9789849597889</i>	অধ্যায় ২ : ব্লকচেইন গবেষণার কার্যধারা: একটি বিস্তৃত অনুসন্ধান অধ্যায় ১০ : রিফিউজি আইডেন্টিফিকেশন এবং ব্যবস্থাপনায় ব্লকচেইনের ব্যবহার অধ্যায় ১১ : ব্লকচেইনের ভবিষ্যৎ
	ব্যবহারিক ও গবেষণায় বায়োমেডিক্যাল ইঞ্জিনিয়ারিং: রোগের খোঁজে কৃত্রিম বুদ্ধিমত্তা, <i>Muktodhara Prokashoni – DIU Press, ISBN 9789849597872</i>	চ্যালেঞ্জ মোকাবেলা এবং বায়োমেডিক্যাল ইঞ্জিনিয়ারিংয়ে ডিপ লার্নিংয়ের ভবিষ্যৎ

Publications

Refereed Journal Publications

Status	Title	Journals
Published	A Novel AI-Driven Model for Student Dropout Risk Analysis with Explainable AI Insights.	Computers and Education: Artificial Intelligence, 100352.
	Multi-format open-source sweet orange leaf dataset for disease detection, classification, and analysis.	Data in Brief, 55, 110713
	Data of history: An open-source and multiformat wall image dataset of Panam city, a historical place	Data in Brief, 56, 110774
	A customised Vision Transformer for accurate detection and classification of Java Plum leaf disease	Smart Agricultural Technology, 8, 100500.
	BDPapayaLeaf: A dataset of Papaya leaf for disease	Data in Brief, 57, 110910.

detection, classification, and analysis.

Under Review DeRefIdm: A Decentralized Refugee Identification and Management Using Smart Contracts IET Information Security

Multi-Context CNN and ViT Ensemble for Leaf Disease Detection: Analysis of Image Size and Batch Size on Ensemble Networks Smart Agricultural Technology

Refereed Conference Publications

- 2024 Scratch Vision Transformer Model for Diagnosis Grape Leaf Disease. In *International Conference on Trends in Computational and Cognitive Engineering*. Singapore: Springer Nature Singapore.
- 2024 A Fuzzy-Based Vision Transformer Model for Tea Leaf Disease Detection. In *International Conference on Trends in Computational and Cognitive Engineering*. Singapore: Springer Nature Singapore.

Projects

- 2023,2024 ■ Decentralized Refugee Identity Management: A Blockchain-Based Project.
- Smart Contract Applications in Distribution Systems of Vaccine.
- Insurance Management with Smart Contracts: A Blockchain Approach.
- Secure and Efficient Management of Marriage Records.
- 2024,2025 ■ AI-Powered Student Dropout Early Warning System
- Machine learning enabled SMART Irrigation system an IOT Device
- Digital Signature for Industry collaboration

Award

- 2024 Recognition for Scholarly publication, Daffodil International University

References

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