

Rittik Chandra Das Turjy

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Objective

Final-year Computer Science student specializing in AI, Deep Learning, and IoT. Proven ability in real-world deployment of intelligent systems and awarded for research and innovation. Seeking roles in Data Science and AI.

Education

B.Sc. in Computer Science and Engineering, Daffodil International University 2022 – 2025
GPA: 3.92/4.00

Erasmus Exchange Semester, Istanbul Kültür University Spring 2025

HSC in Science, Notre Dame College 2018 – 2020
GPA: 5.00/5.00

Skills

Programming: Python, C/C++, MySQL, MATLAB

Libraries: NumPy, Pandas, Scikit-learn, TensorFlow, OpenCV

Tools: MQTT, PythonAnywhere, Git, Firebase

Concepts: Deep Learning, Machine Learning, Feature Engineering, IoT Deployment

Work Experience

Data Scientist (Part Time), Datasoft Manufacturing & Assembly Inc. Oct 2024 – Present

- Reduced false alarms by 91% in Sawpno super shops with multimodal ML detection.
- Engineered 50K+ sensor data using MQTT, MySQL, and Pandas.
- Applied XGBoost, 3D CNNs, Transformers, and PointNet++.
- Deployed real-time alert systems using Python Paho in 426+ locations.

Data Science Intern, Datasoft Manufacturing & Assembly Inc. Jul – Oct 2024

- Predicted NH₃ toxicity in aquaculture with 95% accuracy.
- Combined LiDAR and chemical sensor data for early warnings.
- Used SVR, XGBoost, Transformers, and PointNet++.

Projects

Personal Project: VitaCrop AI

- Real-time crop disease detection using CV + ML.
Python, TensorFlow, FastAPI, React — GitHub

Research & Conferences

● Publications (Under Review)

JackVisualNet – PLOS ONE

Authors: Amir Shohel, Md. Hasan Imam Bijoy, Sarbajit Paul Bappy, Rittik Chandra Das Turjy, Manal Othman, Md Abdus Samad

Hybrid CNN for jackfruit disease using ResNet50V2 + DenseNet201 + VGG19 + XAI (99.91% accuracy).

SkinVisualNet – Journal of Imaging Informatics in Medicine

Authors: Amir Sohel, Rittik Chandra Das Turjy, Sarbajit Paul Bappy, Md Assaduzzaman, Ahmed Al Marouf, Jon Rokne, Reda Alhajj

98.83% accurate hybrid CNN for Lyme disease rash detection and real-time deployment.

● Conference Presentations – IEEE CS BDC Symposium 2024

JackVisualNet: A Hybrid Deep Learning Approach for Identifying Jackfruit Leaf and Fruit Disease

Authors: Amir Shohel, Md. Hasan Imam Bijoy, Sarbajit Paul Bappy, Rittik Chandra Das Turjy, Manal Othman, Md Abdus Samad

Presented an XAI-enabled hybrid CNN model to classify 6 jackfruit diseases with a real-time web dashboard.

SkinVisualNet: A Hybrid Deep Learning Approach for Identifying Lyme Disease from Skin Rash Images

Authors: Amir Sohel, Rittik Chandra Das Turjy, Sarbajit Paul Bappy, Md Assaduzzaman, Ahmed Al Marouf, Jon Rokne, Reda Alhajj

Presented a DenseNet201 + VGG19 hybrid CNN model that improves Lyme disease diagnosis accuracy through image-based analysis.

Volunteering

Inside IoT Workshop, DIU IoT Lab

Nov 2024

Trainer & Speaker — taught MQTT, preprocessing, ML on IoT data to 150+ attendees.

Vice Chair, IEEE DIU SB WIE

Mar 2024 – Present

Led events and mentoring programs promoting women in engineering.

Creative Team Leader, IEEE DIU SB WIE

Mar 2024 – Jan 2025

Managed branding, visuals, and creative content for all club events.

Campus Ambassador, Intel OpenAPI

Jan 2024 – Jan 2025

Hosted workshops and increased adoption of Intel's OpenAPI tools.

Awards

Best Library User — Daffodil International University

2023