# **ABDULLA ALL NOMAN**

Graduate Student | Data Science

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Brooklyn, NY
in AbdullaAllNoman

### **SUMMARY**

Enthusiastically pursuing a Data Science internship, I aspire to bridge the gap between theoretical knowledge and practical application. Driven by a passion for unraveling the intricacies of data, my goal is to contribute actively to projects, elevating my skills in data analysis, machine learning, and statistical modeling.

Recognized for my collaborative spirit, I consider myself a team player. Beyond individual success, I thrive in a collective environment where diverse minds converge to achieve shared objectives. Eager to embark on this journey of transforming data into actionable insights, I bring a blend of creativity and formality to make a meaningful impact.

SKILLS -

Languages: Python, Java, C, SQL, R, JavaScript.

Frameworks PyTorch, Tensorflow, Matplotlib, NumPy,

& Libraries: Pandas, Seaborn, Sci-kit Learn.

Machine Classification, Regression, Segmentation,

**Learning**: Clustering.

**Statistical** Regression Analysis, Hypothesis Testing,

**Analysis:** ANOVA.

Database: SQL, MongoDB.

Programming Jupyter Notebook, VS Code, IntelliJ IDEA,

Tools: Git.

Big Data Hadoop, Spark (Basic Understanding).

Tools:

#### PROJECTS

NLP **Sentiment analysis & emotion detection from Twitter dataset**- Preprocessed data using various techniques to fit the models.

Github Repository

- Performed sentiment analysis and emotion classification using NLP techniques.
- Visualized results to gain insights into public opinions on a specific topic

CNN Multi-class chest disease classification using CNN

**Github Repository** 

- Preprocessed image data using a variety of techniques to ensure compatibility with the models.
- Employed prominent pre-trained models to discern and visualize disparities in outcomes.
- Developed a classification tool for chest diseases, employing chest X-ray images for disease detection.

DNN Multi-class respiratory disease classification using federated learning

**Github Repository** 

- Utilized federated learning for multi-class respiratory disease classification from distributed data.
- Secured information storage system via federated learning and blockchain collaboration.

- Innovated global model aggregation process for more accurate federated learning outcomes.

### **PUBLICATION**

Journal Article Blockchain and smart contract for IoT-enabled smart agriculture

Paper Link

PeerJ Computer Science, Volume 7(2021), p:e407, PeerJ Inc.

Journal Article Blockchain for medical collaboration: A federated learning-based

approach for multi-class respiratory disease classification

Healthcare Analytics, Volume 3(2023), p: 100135, Elsevier

Paper Link

Journal Article Effect of Label Noise on Multi-Class Semantic Segmentation:

A Case Study on Bangladesh Marine Region

Paper Link

Journal of Applied Artificial Intelligence, Volume 36(2022) - Issue 1, Taylor & Francis Online

Conference Paper Patch-Wise Semantic Segmentation of Sedimentation from

High-Resolution Satellite Images Using Deep Learning

Paper Link

IWANN 2021, Proceedings, Part I 16, Springer International Publishing

**EDUCATION** 

01/2023 - 12/2024 M.Sc. in Data Science

CGPA: 3.78/4.00

Montclair State University (New Jersey, USA)

01/2017 - 04/2021 B.Sc. in Computer Science and Engineering

CGPA: 3.70/4.00

Awarded Magna cum Laude

North South University (Dhaka, Bangladesh)

## EXPERIENCE -

## 05/2021 - 04/2023 Research Assistant

**North South University** 

- Research Idea Generation
- Research Idea Implementation
- Research Paper Writing

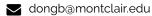
# 05/2021 - 04/2023 Undergraduate Teaching Assistant

- Provide student counseling sessions
- Grade quiz and assignments
- Prepare course materials
- Invigilation during examinations

## REFERENCES -

# Dr. Boxian Dong

Associate Professor School of Computing Montclair State University New Jersey, United States



**North South University**