







# ABDULLA ALL NOMAN

Graduate Student | Data Science

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## 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 & Libraries:** PyTorch, Tensorflow, Matplotlib, NumPy, Pandas, Seaborn, Sci-kit Learn.
- Machine Learning:** Classification, Regression, Segmentation, Clustering.
- Statistical Analysis:** Regression Analysis, Hypothesis Testing, ANOVA.
- Database:** SQL, MongoDB.
- Programming Tools:** Jupyter Notebook, VS Code, IntelliJ IDEA, Git.
- Big Data Tools:** Hadoop, Spark (Basic Understanding).

## PROJECTS

NLP	<b>Sentiment analysis &amp; emotion detection from Twitter dataset</b> - Preprocessed data using various techniques to fit the models. - Performed sentiment analysis and emotion classification using NLP techniques. - Visualized results to gain insights into public opinions on a specific topic	<a href="#">Github Repository</a>
CNN	<b>Multi-class chest disease classification using CNN</b> - 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.	<a href="#">Github Repository</a>
DNN	<b>Multi-class respiratory disease classification using federated learning</b> - 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.	<a href="#">Github Repository</a>

## PUBLICATION

Journal Article	<b>Blockchain and smart contract for IoT-enabled smart agriculture</b> PeerJ Computer Science, Volume 7(2021), p:e407, PeerJ Inc.	<a href="#">Paper Link</a>
Journal Article	<b>Blockchain for medical collaboration: A federated learning-based approach for multi-class respiratory disease classification</b> Healthcare Analytics, Volume 3(2023), p: 100135, Elsevier	<a href="#">Paper Link</a>
Journal Article	<b>Effect of Label Noise on Multi-Class Semantic Segmentation: A Case Study on Bangladesh Marine Region</b> Journal of Applied Artificial Intelligence, Volume 36(2022) - Issue 1, Taylor & Francis Online	<a href="#">Paper Link</a>
Conference Paper	<b>Patch-Wise Semantic Segmentation of Sedimentation from High-Resolution Satellite Images Using Deep Learning</b> IWANN 2021, Proceedings, Part I 16, Springer International Publishing	<a href="#">Paper Link</a>

## EDUCATION

01/2023 - 12/2024	<b>M.Sc. in Data Science</b> CGPA: 3.78/4.00	Montclair State University (New Jersey, USA)
01/2017 - 04/2021	<b>B.Sc. in Computer Science and Engineering</b> CGPA: 3.70/4.00 Awarded Magna cum Laude	North South University (Dhaka, Bangladesh)

## EXPERIENCE

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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**

North South University

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

## REFERENCES

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**Dr. Boxian Dong**

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