



# NAZMUL ALAM DIPTU

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[researchgate.net/profile/NazmulDiptu](https://researchgate.net/profile/NazmulDiptu)

## SUMMARY

I have developed a sound footing in the field of machine intelligence research with a special attention on image & NLP driven data. Currently, I am working as a Jr. Data Scientist and building robust data driven systems in a IoT based energy industry. Besides, I have special interest in related research applied to the social, economical and environmental sciences.

## EDUCATION

**Bachelor of Science in Computer Science and Engineering | Major: AI**

North South University

Jan 2015 – Dec 2018

Dhaka, Bangladesh

**Department of Electrical and Computer Engineering**

CGPA: 3.62/4.00 (89%), CGPA in Math courses: 4.0/4.0 ( credit count 18)

## WORK EXPERIENCE

**Jr. Data scientist**

Nov, 2019 – Present

ME SOLshare : Notable Works

Dhaka, Bangladesh

- Automated Grid Map Topology: To accurately determine connections between nodes in a grid and analyze the trading behavior possible theft detection between nodes.
- Grid Health Monitoring & Support System : An internal tool implemented in tableau to monitor whole system performance, produce report and support decision making.
- Automated Noise Filtering Algorithm : An algorithm to remove noise from sensor data based on filtering & rolling median.
- Energy Consumption Prediction : Predict Future Monthly energy Sales and or Consumption from individual nodes.
- Customer Credit rating : Customer credit rating system Loan defaulter.
- Efficient Grid Modeling : Energy loss optimization by designing efficient grid architecture - on going

**Lab Instructor: Part Time**

May 2019 – Present

North South University

Dhaka, Bangladesh

- CSE 311 : Database Systems Lab [Jan, 2020 - present]
- CSE 115 Programming Language I : C programming Lab [Sept, 2019 - sept, 2020]
- CSE 482 Internet and Web Lab Technology [May, 2019 - Dec 2019]
- CSE 225L Data Structures and Algorithms Lab [May, 2019 - Aug 2019]

**Internship : Business Intelligence(BI) - Summer 2019**

May 2019 – August 2019

Grameenphone Limited

Dhaka, Bangladesh

**Undergraduate Teaching Assistant-UGA**

Feb 2019 – May 2019

North South University

Dhaka, Bangladesh

## LIVE PROJECTS

**Ideathon - Idea Crowdsourcing Site | PHP, Laravel, JavaScript**

## ARTICLES PUBLISHED IN PEER REVIEWED JOURNALS

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1. Nahian Ahmed, **Nazmul Alam Diptu**, Md. Sakil Khan Shadhin, Md. Abrar Fahim Jaki, Md. Ferdous Hasan, Md. Naimul Islam, Rashedur M Rahman (2019), "Population Estimation of Rohingya refugees through Artificial Neural Networks (ANN): A comparison between data driven and satellite image driven approaches", **Vietnam Journal of Computer Science**

## ARTICLES PUBLISHED IN INTERNATIONAL CONFERENCE

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2. **Nazmul Alam Diptu**, Md Asif Khan, Sujit Debnath, Abdullah Al Imam, Kazi Asfaq Ahmed Ador, Rashedur M Rahman (2018), "Early Detection of Glaucoma Using Fuzzy Logic in Bangladesh Context ", **2018 International Conference on Intelligent Systems (IS)**
3. Md. Shopon, **Nazmul Alam Diptu** and Nabeel Mohammed, "End to End Optical Character Recognition Using Synthetic Dataset Generator For Noisy Conditions ", **International Joint Conference on Computational Intelligence**

## MANUSCRIPTS UNDER REVIEW

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4. Aimon Rahman, **Nazmul Alam Diptu**, Nabeel Mohammed\*, Sifat Momen\* "**Comparative Analysis of Bangla Online Abusive Comment Classification: Transactions on Asian and Low-Resource Language Information Processing**

## RESEARCH AND PROJECT EXPERIENCE

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### **Predict Future Sales — Comprehensive studies of a time series data to forecast sales.[May 2018 - Dec 2018]**

*Supervisor(s):* Dr. Nabeel Mohammed *Overview of project:* The competition involved a time series problem to solve for a renowned Russian software company, 1C, task was to predict one month of sale based on 34 months of sale of 20170 different items in over 60 shops from different cities of Russia. *Responsibility:* We (Team Outliers: **Nazmul Alam Diptu**, Md Sakil Khan Shadhin and Md Naimul Islam) generated many features based on statistics, texts, domain knowledge and intuition. We have applied different statistical, Machine Learning, Deep Learning and Boosting models. Best result we found (Using Gradient boosting model) placed Outliers in 10th among more than 2000 teams (December 2018 ) and the competition is still ongoing.

## EXTRA CURRICULAR ACTIVITIES

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I love to teach students. Passionate about European football( Die hard fan of FC Barcelona), movies, specially ones with psychological thriller. Love to spend time with my friends.

## SKILLS

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**Languages:** Bengali (Native), English

**Programming** Python, C/C++, Tensor-flow, Keras, MySQL, PostgreSQL, Tableau, Excel/Google Sheets, Git, PHP, Java, JavaScript, HTML, CSS, Bootstrap, JQuery, AJAX, Django, Codeigniter, Laravel, React(familiar), Earth Engine, Google Colab.

**Document Creation:** Microsoft word, LaTeX, Markdown