

MOHAMMAD NAHID HOSSAIN

Research Enthusiast

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EXPERIENCE

Research Assistant(Machine Learning | Deep Learning)

Kwangwoon University

📅 Sep 2019 – Present

📍 Seoul, Korea

- Doing Korean government research under Smart Home and Building(H&B) laboratory using machine learning and deep learning on structured and unstructured data.
- **Comprehensive Air Quality Index**- This is Korean govt. funded research in our research laboratory, in this research we are trying to forecasting the Comprehensive Air-quality Index(CAI) for the major cities,like- Seoul. We have the data of different features which is related to CAI. My responsibility is to acquire and the pre-processing the raw data, finding correlation, selecting features, then training and scoring the model.
- **Cost Minimization of Apartment and Public Services**- This is another Korean govt. funded research in our research laboratory, in this research we are trying to develop a machine learning model which will be able to suggest how to minimize Apartment and public service cost. My responsibility is, as this a Big Data so I have to perform and apply some statistical method to finding out the correlations between daily services from the data set.

Lecturer(On Study Leave)

Institute of Science Trade and Technology (ISTT)

📅 Jan 2018 – Present

📍 Dhaka, Bangladesh

- **Conducted Courses**- Structured Programming, Object Oriented Programming, Artificial Intelligence, Algorithms, Database, Web Engineering etc.
- **Examiner**- Questions set and examination scripts evaluation judge on National University.
- **Instructor**- Instructing undergraduate students in the professional projects.

Faculty Member

ISTT ACM STUDENT CHAPTER

📅 Nov 2018 – Oct 2019

📍 Dhaka, Bangladesh

- **Mentor**- Mentor at ISTT Highly Energetic and Ambitious Programmers (HEAP) programming club.
- **Guidance**- Guide to arrange different level of competitive programming contest, contest question set, arranging hackathon, seminar related to Association for Computing Machinery(ACM).

Lab Assistant

American International University-Bangladesh (AIUB)

📅 Sep 2016 – Dec 2016

📍 Dhaka, Bangladesh

- Taking lab courses and exams on C++(Object Oriented) as well as evaluate lab performance.
- Giving brief on problem solving skill and assisting how to make solution.
- Making lab manual for individual topics.

EDUCATION

Msc. in Electronic Engineering and Information

Kwangwoon University

📅 2019-Present

📍 Seoul, Korea

- **Cumulative GPA**-4.16 out of 4.50(Appeared)
- **Thesis**- A study on the Analysis of air quality data for feature extraction using machine learning(on going)*

Bsc. in Computer Science and Engineering

American International University-Bangladesh (AIUB)

📅 2013-2017

📍 Dhaka, Bangladesh

- **Cumulative GPA**-3.78 out of 4.00
- **Thesis**- A Routing Protocol with Energy Harvesting Model for Wireless Nano Sensor Network in Cancer Cell Detection.(read)

TECHNICAL SKILLS

- **Language**- Python, Java, C/C++, MySql, Latex
- **Library&Framework**- matplotlib, Numpy,Scikit-learn,Keras,Pytorch, OpenCV

SOFTWARE SKILLS

- **IDE&Platform**- Jupyter/PyCharm/Anaconda/Miniconda
- **Development Tools**- Microsoft azure studio/Weka/Matlab/Oracle/tableau

RESEARCHS&PROJECTS

- **Landslide Prediction**- This is a group work. Based on google data we are trying to make a model using machine learning algorithm for predicting which zone are highly risky as landslide zone and in which range in time landslide may occur.(running research)*
- **Tic-Tac-Toe Game Solutions (Supervised Learning)**(read)
- **Breakfast Cereal Dataset (Unsupervised Learning)**(read)

AWARDS&CERTIFICATION

- 2014 - 10th in AIUB Junior Programming Contest, AIUB.
- 2015 - National Hackathon, ICT Division.
- 2015 - ACM-ICPC International Programming Contest 2015, ICPC