Masrur Ahmed

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RESEARCH EXPERIENCE

Undergraduate Research Project (Feb 2020 - Dec 2020)
Title: Machine Learning Approach to Toxic Gas Dispersion Modeling
Supervisor: Dr. Engr. Salma Akhter
Description: Used three Machine Learning algorithms to create atmospheric gas dispersion models that can be used in emergency response scenarios after an accidental release.

TEACHING EXPERIENCE

Have been working as a home tutor since 2016. With a constructivist approach, taught the following subjects to more than 10 high school students

- Mathematics: Euclidean & Coordinate Geometry, Linear Algebra, Trigonometry, Differential & Integral Calculus, Probability & Combinatorics, etc.
- Physics: Newtonian Mechanics, Thermodynamics, Electricity & Circuits, etc.
- Chemistry: Organic Chemistry, Quantitative Chemistry, Atomic Structures, Reaction Kinematics, etc.
- Information Technology: C programming, HTML, Numeral Systems, Boolean Algebra, Logic Gates, etc.

EDUCATION

Bachelor of Science in Chemical Engineering and Polymer Science (2015-2020)
GPA: 3.01 / 4.00
Shahjalal University of Science and Technology, Sylhet

TECHNICAL SKILLS

Programming	Python, C, MATLAB, Bash Scripting
Data Science	Pandas, Matplotlib, Scikit-Learn, Keras, Tensorflow
Cheminformatics	DeepChem, RDkit
Modeling and Simulation	Aspen HYSYS, DWSIM, OpenFOAM, ParaFOAM
Open-Source Development	Linux, Github, Docker
Office and Document Preparation	Office365, LibreOffice, G Suite, LaTeX, Overleaf
Others	Davinci Resolve, Gimp, HTML5, PowerBI

CERTIFICATIONS

- ✓ Deep Learning Specialization; Coursera (5 courses) – September 2020
- ✓ Applied Data Science with Python Specialization; Coursera (3 completed out of 5 courses) –August 2020
- ✓ Python 3 Programming Specialization; Coursera (5 courses) – July 2020
- ✓ Open-Source Software Development Linux and Git Specialization; Coursera (4 courses) – June 2020

- ❖ Training on Industrial Process Unit Operation and Process Control Techniques (2019)
  - Training Institute for Chemical Industries, Narshingdi, Bangladesh
  - Duration: 3 weeks
  - Grade Obtained: A (3.75/4)

- ❖ Industrial Visit to Kailashtilla Gas Field (2019)
  - o Watched the day-to-day running of the industry
  - o Examined various unit operations and unit processes
  - o Investigated the total production over the years and created a production forecast

STANDARDIZED TEST SCORES

Graduate Record Examination (GRE) – 30th March 2022

Total	Verbal	Quantitative	Analytical Writing
322	161	161	3.5

Test of English as a Foreign Language (TOEFL) – 29th May 2022

Total	Reading	Listening	Speaking	Writing
104	28	28	23	25

EXTRA-CURRICULAR ACTIVITIES

- ➢ IT Support Specialist at Al Rajhi Fashion and Al Rajhi Travels (2022 - Present)
- ➢ Voluntary Blood Donor (2016 - Present)
- ➢ YouTube Content Creator (2021 - Present)
- ➢ Co-founder and Midfielder of FC Classic XI (2013-2014)
- ➢ High School Annual Sports Volleyball Champion (2012)

LINGUISTIC PROFICIENCY

Bangla: Native   English: Fluent   Arabic: Novice Reader

REFERENCE

Dr. Engr. Salma Akhter
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Chemical Engineering and Polymer Science
Shahjalal University of Science and Technology
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