930 Douglas Street Chattanooga, Tennessee, 37403

MD JUBAIR PANTHO

(423) 255-9285 wzs444@mocs.utc.edu GitHub LinkedIn **Google Scholar**

EDUCATION

University of Tennessee

Chattanooga, TN

Aug 2022 - present

- M.S. in Computer Science, CGPA: 4.00/4.00
- Concentration: Data Science
- Total Course Credits: 6
- Graduate Coursework: Programming Languages for Advance Data Analytics (CPSC 5180), Fundamentals of Computer Science (CPSC 5000), Discrete Mathematics for Computer Science (MATH 2030), Introduction to Machine Learning (CPSC 5400)(Percentage - 99.65%), Principals of Data Analytics (CPSC 5240), Structuring Programs and Data (CPSC 5010)

Bangladesh University of Engineering

Dhaka, Bangladesh

Feb 2016 - Feb 2021

- and Technology
- Bachelor of Science in Civil Engineering, CGPA: 3.19/4.00
- Concentration: Environmental Engineering
- Total Credit Hours: 160

RESEARCH EXPERIENCE

Graduate Research Assistant

University of Tennessee at Chattanooga

Sep 2022 – Present

· Estimation of fitness advantages of SARS-CoV-2 variants in several geographic locations using Global Initiative on Sharing All Influenza Data(GISAID) data set.

TECHNICAL SKILLS

- Programming Languages: Python, Java, C++, R
- Python Libraries: Numpy, Pandas, matplotlib, Seaborn, Pytorch, Scikit-learn
- **Technologies:** Git, Linux, ETFX(Intermediate)
- Geographic Information System (GIS) applications: ArcGIS Pro, Arc Map
- Computer Aided Design & Analysis of Structures: SAP 2000, AutoCAD

RESEARCH AND PROJECTS

Graduate Academic Projects

- Differential Population Growth Fitness: A Pairwise Comparative Approach to Estimate the Fitness Advantage of major SARC-CoV-2 Clades.
 - The research focuses on estimating the SARS-CoV-2 variant with advanced fitness by log-transforming the ratio of two exponentially growing variants.
- Phylogenetic Tree: The Use of Agglomerative Clustering to Understand The Evolution of the Omicron Sub-lineages.

Conference Publication

 NDVI: Detection of Vegetation Change Using Remote Sensing & GIS- A Study on Barishal City Corporation, Bangladesh. Presented at 6th International Conference on Civil Engineering for Sustainable Development, ICCESD, 2022. Citation : 3 (ResearchGate)

Conference Presentation

• Presented Differential Population Growth Fitness: A Pairwise Comparative Approach to Estimate the Fitness Advantage of major SARC-CoV-2 Clades at MCBIOS 2023 at University of Dallas.

Undergraduate Thesis

Geo-spatial Spreading of COVID-19 Cases Over Time and Relation with PM2.5 and Meteorological Parameters in Dhaka

TEST SCORES

Graduate Record Examination (GRE) - 27 December, 2021

Quantitative Reasoning	Verbal Reasoning	AWA
157	148	3.5

International English Language Testing System (IELTS) – 3 March, 2022

Listening	Reading	Writing	Speaking	Overall
8.5	7	7	6.5	7.5

CERTIFICATIONS

- Datacamp certification on Python
- Datacamp certifications on R

HONORS AND AWARDS

- **Dean's Merit Scholarship** 2023, The University of Tennessee at Chattanooga, Awarded for demonstrating excellent academic performance
- Education Board Scholarship (Grade 5)- 2007, Barisal Education Board, Bangladesh
- Junior School Certificate Examination (JSC) Education Board Scholarship 2010, Barisal Education Board, Bangladesh
- Secondary School Certificate Examination (SSC) Education Board Scholarship 2013, Barisal Education Board, Bangladesh
- **Higher Secondary School Certificate Examination (HSC) Education Board Scholarship** 2015, Dhaka Education Board, Bangladesh