

MD. JAMIL KHAN

Junior Data Scientist & AI Developer

✉ jamil.mu.cse@gmail.com ☎ 01760413449

in mdjamilkhan 🌐 jamilEmon

🌐 Portfolio 🏠 Dhaka, Bangladesh



Career Objective

Motivated and results-driven Junior Data Scientist and AI Developer with a strong academic background and published research in artificial intelligence. Committed to leveraging advanced analytical techniques, machine learning, and deep learning methodologies to solve complex real-world challenges. Seeking a dynamic and growth-oriented position where I can contribute to impactful projects, collaborate with cross-functional teams, and continuously advance my expertise in cutting-edge technologies.

Education

Metropolitan University, Bangladesh

BSc in Computer Science & Engineering

May 2021 – April 2025

CGPA: 3.66 / 4 (Completed 151 out of 154 credits)

Medium of Instruction: English

Thesis: Harmonization of Heart Disease Dataset for Accurate Diagnosis using ML & Feature Engineering

Supervisor: Ruhul Amin (Lecturer, Dept. of CSE)

Work Experience

biggani.org

Interview Leader and Research Contributor

May 2024 – Apr 2025

- Led interviews with renowned scientists to produce high-quality, research-driven articles.
- Contributed to science communication by delivering accessible and credible information to the public.
- Focused on in-depth scientific research, analysis, and content development.

Skills

Programming: Python, SQL, C++, JAVA, LaTeX, R

Frameworks: Pandas, Numpy, Scikit-Learn, Matplotlib, TensorFlow

Tools: Power BI, MS Word, Excel, PowerPoint, OneNote

Platforms: PyCharm, Jupyter Notebook, Visual Studio Code, IntelliJ IDEA, Retool

Soft Skills: Rapport Building, Strong Stakeholder Management, People Management, Excellent Communication

Projects

link

Heart Disease Prediction Using ML and DL

Nov 2024 – Mar 2025

- Developed a heart disease prediction model using RF, XGBoost, CatBoost, SVM, and 1D CNN.
- Achieved 96.36% accuracy with 1D CNN by applying advanced feature engineering and PCA.
- Improved prediction performance by 7% through interaction-focused feature analysis.
- Identified key performance indicators through analysis.

[link](#)

Brain Tumor Classification Using DL

Feb 2025 – Mar 2025

- Built CNN pipeline with VGG16, ResNet50, InceptionV3, EfficientNetB0 via transfer learning.
- Used Albumentations for advanced image augmentation.
- Achieved 97% accuracy using stacking ensemble with logistic regression.

[link](#)

Hybrid Deep Ensemble for Sentiment Analysis

Sep 2024 – Jan 2025

- Built a hybrid sentiment model using BERT-based augmentation, transformer embeddings, ensemble learners, and a CNN-BiGRU-Attention network.
- Reached 91.15% accuracy on Amazon reviews via stacking and Optuna hyperparameter tuning.

Laravel, MySQL, HTML/CSS/JS

Attendance Management System

Feb 2023

- Web app to track student attendance for Metropolitan University.

[link](#)

Diabetes prediction Using ML and Deep Learning

Jan 2025

- Built a diabetes prediction model using ML algorithms like XGBoost and Random Forest.
- Applied advanced feature engineering and interaction analysis to uncover complex health patterns.
- Used log transformation, scaling, and PCA to optimize performance and model stability.
- Achieved high accuracy and strong interpretability through feature selection and ensemble methods.

[link](#)

Airbnb-price-prediction Using ML and Deep Learning

Jan 2025

- Developed an Airbnb price prediction model using deep learning (Keras ANN) and ensemble methods.
- Integrated powerful algorithms such as XGBoost, CatBoost, and Gradient Boosting.
- Applied strong feature engineering techniques and log transformation to enhance data quality.
- Achieved exceptional performance with a stacking ensemble, reaching an R^2 score of up to 0.999.

Publication

May 2023: Md. Jamil Khan. Learn C Programming: Part One. Eliva Press. ISBN: 978-9994983711. An introductory programming book designed to help beginners understand the fundamentals of C programming through clear explanations and practical examples. Authored and self-published to support students and early learners in computer science. [book link](#)

November 2024: Md. Jamil Khan, Ruhul Amin, Tonway Deb Nath, Md. Shamim Reza, Jungpil Shin, "Harmonization of Heart Disease Dataset for Accurate Diagnosis: A Machine Learning Approach Enhanced by Feature Engineering." CMC-Computers Materials and Continua. (Q2, SCI, and Scopus, IF=2.1) Accepted [research paper link](#)

Awards & Honors

Feb 2023: 1st and 2nd Runner-Up in Line Follower and Soccer Robot Competition, Robo Fest 2.0 (MU Robotics Club)

Languages

Bangla: Native (Mother Tongue)

Read, Write, Speak

English: Fluent

Read, Write, Speak

Extra Curricular

Football, Badminton, Cricket, Exploring Digital World, Leadership, Volunteering

Certificate

link

IBM SkillsBuild: Python 101 for Data Science

July 2025

- Python basics, functions, loops, and libraries for data science.

link

IBM SkillsBuild: Data Analysis with Python

July 2025

- Learned data wrangling, analysis, and visualization using Pandas, NumPy, and Matplotlib.

link

IBM SkillsBuild: Machine Learning with Python

July 2025

- Supervised and unsupervised learning, regression, classification, clustering, and model evaluation.

link

HP LIFE Certificate in Data Science and Analytics

July 2025

- Covered key data science tools, methodologies, and business applications.

link

HackerRank Certified in Advanced SQL

July 2025

- Validated expertise in complex querying and database management.

Personal Information

Father's Name: Shahnur Khan

Mother's Name: Jahora Begum

Date of Birth: 1 Feb 2002

Gender: Male

Marital Status: Unmarried

Nationality: Bangladeshi

Religion: Islam

Passport No.: A18908884

Permanent Address: Kuraliapara, Postcode 1944, Holding no:294, word no:08, Mirzapur, Tangail

Current Location: Dhaka, Bangladesh

Blood Group: B+

Reference

- *Prof.Dr.Muhammad Mustafa Hussain*
Purdue University Elmore Family School of Electrical and Computer Engineering
United States
Email: mmhece@purdue.edu
- *Ruhul Amin*
Lecturer, Dept. of CSE
Metropolitan University sylhet
Email: ruhul@metrouni.edu.bd