

Alauddin Sabari

Email: aladinsabari@gmail.com

Location: Arlington-76013, Texas, USA



BIOGRAPHY

Applied Statistics and Data Science graduate student with a strong foundation in **machine learning, statistical data analysis, and generative AI**. Experienced in building **end-to-end AI/ML pipelines**, including data preprocessing, feature engineering, model development, evaluation, and technical documentation. Proficient in **Python** and core machine learning libraries such as **NumPy, Pandas, and Scikit-learn**, with hands-on experience using deep learning frameworks including **PyTorch** and **TensorFlow**. Actively engaged in applied research and industry-oriented projects involving **large-scale data analysis, large language models (LLMs), and AI system evaluation**. Developed **MLBlock**, a machine learning and blockchain-based framework that integrates **explainable AI (XAI)** for intelligent land valuation, with an emphasis on **data integrity, model interpretability, and real-world deployment considerations**. Strong interest in **AI engineering and research-driven roles** that involve GenAI workflows, LLM evaluation, and building reliable, production-ready AI systems.

EDUCATION

M.Sc. - The University of Texas at Arlington(UTA) <i>Applied Statistics & Data Science:</i>	Arlington, TX 76019 <i>January 2026 - Present</i>
M.Sc. - Jahangirnagar University, Bangladesh <i>Computer Science: GPA: 3.85 (out of 4.00)</i>	Savar 1342, Bangladesh <i>August 2023 - May 2025</i>
B.Sc. - Islamic University, Bangladesh <i>Information and Communication Technology; GPA: 3.01 (Out of 4.00)</i>	Kushtia 7003, Bangladesh <i>January 2018 - April 2023</i>

PUBLICATIONS

- **Alauddin Sabari**, Imran Hasan, Salem A. Alyami, Pietro Liò, Md Sadek Ali, Mohammad Ali Moni, A. K. M. Azad, “LandSin: A Differential ML and Google API-Enabled Web Server for Real-Time Land Insights and Beyond,” *Software Impacts*, Vol. 22, Article 100718, November 2024. DOI: [10.1016/j.simpa.2024.100718](https://doi.org/10.1016/j.simpa.2024.100718)
- **Alauddin Sabari**, Mithila Farjana, Md Habibur Rahman, Md Muminur Rahman Sonic, Mohammad Ashraful Islam, “Comprehensive Biomarkers Analytics Web API Reveals Comorbidities Between Obesity and Skin Cancer,” *2024 IEEE International Conference on Computing, Applications and Systems (COMPAS)*. DOI: [10.1109/COMPAS60761.2024.10796236](https://doi.org/10.1109/COMPAS60761.2024.10796236)
- **Alauddin Sabari**, Md Jakir Hossain, Imran Hasan, Abdullah All Ahhad, Md Shafiqul Islam, Feroza Naznin, Md Zahidul Islam, “MLBlock: Harnessing Machine Learning, Blockchain, and XAI for Smarter Land Valuation,” *27th International Conference on Computer and Information Technology (ICCIT)*. DOI: [10.1109/ICCIT64611.2024.11022180](https://doi.org/10.1109/ICCIT64611.2024.11022180)
- Md Bikasuzzaman, Alif Arman, Ishtiaq Hossen, Arindam Kishor Biswas, **Alauddin Sabari**, “Hybrid Deep Learning and Machine Learning Approach for Early Guava Disease Detection & Classification,” *2025 International Conference on Quantum Photonics, Artificial Intelligence, and Networking (QPAIN)*. DOI: [10.1109/QPAIN66474.2025.11172179](https://doi.org/10.1109/QPAIN66474.2025.11172179)
- Shafiqul Islam, Mustakim Musully Pias, **Alauddin Sabari**, Tarek Hasan Al Mahmud, Md Zahidul Islam, “An Efficient Early Identification of Chronic Kidney Disease Using Machine Learning Techniques,” *27th International Conference on Computer and Information Technology (ICCIT)*. DOI: [10.1109/ICCIT64611.2024.11022079](https://doi.org/10.1109/ICCIT64611.2024.11022079)
- Imran Hasan, Abdullah All Ahhad, **Alauddin Sabari**, Md Habibur Rahman, “Revolutionizing Education with Machine Learning: Personalized Learning, Tutoring Systems, and Analytics Unveiled,” *4th International Conference on Electrical, Computer and Communication Engineering (ECCE)*. DOI: [10.1109/ECCE64574.2025.11013048](https://doi.org/10.1109/ECCE64574.2025.11013048)

EXPERIENCE

- **AI Developer** Greater London, NW1 8NJ, United Kingdom
Zero World August 2024 - August 2025
 - **Project:** I am currently working as an AI Developer remotely in this startup, where we are building an AI and LLM-integrated e-learning platform. Our goal is to enhance personalized learning for students by leveraging advanced AI technologies. This project is also proudly affiliated with the University of Southampton’s Catalyst Business Accelerator Programme.
- **Intern** BRACNet Limited, Bangladesh
AI and Software Development May 2023 - July-2023
 - **AI Development:** Developed AI-powered Software based solutions.
 - **Model Deployment:** Assisted in Integration of machine learning models in IOT devices.

- Mentor**

Dinajjpur, Bangladesh
December 2024 - May 2025

 - Faculty of CSE, Hajee Mohammad Danesh Science Technology University**
 - Project:** I am working part-time as a mentor in an AI Integrated API Development Project with Database, AI, and a Python-Based Framework. The project is a part of the Enhancing Digital Government and Economy (EDGE) Project, funded by the World Bank.
- Instructor**

Islamic University, Bangladesh
July 2024 - December 2024

 - Data Science with Python**
 - Organizer:** Department of Information and Communication Technology and part of Enhancing Digital Government and Economy(EDGE) Project in the field of python programming, data science and Software Development.
- Research Assistant**

Islamic University, Bangladesh
February 2021 - April 2023

 - ICE Innovation Lab**
 - Supervisor:** Dr. Md. Zahidul Islam, Professor, Information and Communication Technology, Islamic University, Bangladesh.
 - Research Area:** Computer Vision, Medical Image Processing, Machine Learning, Deep Learning, Software Development, and Health Informatics.
- Program Executive**

Islamic University, Bangladesh
December 2020 - December 2021

 - IEEE Islamic University Student Branch**
 - Branch:** IEEE Islamic University Student Branch, Islamic University, Kushtia, Bangladesh.
- Freelancer**

Upwork
September 2021 - December 2023

 - Top-Rated Data Science Freelancer**
 - Platform:** Worked as a **Top-Rated** freelancer, achieved 100% Job Success Score with total 14 large-scale projects on Upwork, the world's leading freelancing platform, specializing in Data Science projects.
View my profile: [Upwork Profile](#).

THESIS/PROJECTS

- MLBlock: Interpretable Machine Learning Framework for Transparent Land Valuation:** Developed *MLBlock*, an end-to-end AI/ML framework for transparent and reliable land valuation with a strong emphasis on **model interpretability and uncertainty-aware decision making**. Built structured data pipelines for preprocessing, feature engineering, and model training using geospatial and tabular datasets. Applied regression-based and reinforcement-learning-inspired models, and systematically evaluated predictive performance, robustness, and explainability using **XAI techniques**. Emphasized clear documentation of model assumptions, data behavior, and system design to support reproducible analysis and real-world deployment.

Supervisor: Md Zahidul Islam, Professor, Department of Information and Communication Technology, Islamic University, Bangladesh.
- AI-Assisted Rare Disease Diagnosis and Patient Data Analysis:** Designed and implemented an AI-based system to support early diagnosis and patient management for rare diseases, with a focus on **learning from limited and heterogeneous data**. Developed data preprocessing pipelines for clinical text, medical images, and patient records. Applied NLP techniques to extract structured information from unstructured clinical notes and computer vision models for imaging-based pattern detection. Evaluated model performance under data sparsity and variability, with attention to **model reliability, interpretability, and clinical relevance**, and integrated results into a web-based decision support application.
Supervisor: Mohammad Ashraful Islam, Assistant Professor, Department of Computer Science and Engineering, Jahangirnagar University, Bangladesh.
- Automated Data Processing and Preprocessing Pipelines for Large-Scale Analysis:** Designed and implemented automated data pipelines using Python and Selenium to extract, clean, and preprocess large volumes of structured and unstructured data from dynamic web sources. Built reusable workflows that improve data quality, consistency, and traceability for downstream **statistical analysis and machine learning modeling**. Focused on creating well-documented datasets suitable for exploratory analysis, modeling, and evaluation in applied data science and analytics projects.
Supervisor: Alamin Faraji, Senior Software Engineer, NexStack, Singapore.

MEMBERSHIP IN SCIENTIFIC SOCIETIES

- IEEE Computer Society** - Student Member (From 2021 - Running)

SKILLS SUMMARY

- Languages:** C, C++, Java, R, Python
- Frameworks:** Django, Flask, FastAPI, Dash
- Libraries:** TensorFlow, PyTorch, scikit-learn, NumPy, Pandas, Matplotlib, Seaborn, Plotly
- Tools:** LaTeX, SPSS, Power BI, Tableau
- Soft Skills:** Leadership, Project Management, Event Management, Time Management, Writing, Public Speaking

COURSEWORK & CERTIFICATIONS

Online Learning Platforms: Coursera, Udemy (Oct 2017 – Jan 2023)

- Machine Learning & Deep Learning in Python & R [[Certificate](#)]
- Master in Microsoft Power BI Desktop and Service [[Certificate](#)]
- Data Manipulation in Python (Pandas) [[Certificate](#)]
- SQL for Data Analytics [[Certificate](#)]
- Python Data Structures [[Certificate](#)]
- Learn JavaScript - For Beginners [[Certificate](#)]
- MySQL: Beginner to Expert [[Certificate](#)]
- Introduction to Cloud Computing on AWS [[Certificate](#)]

HONORS AND AWARDS

- Top Rated freelancer award with 100% Job success score in the field of Data Science from Upwork.
- Best Mentor Award, ICE Innovation Lab, Islamic University, Bangladesh.
- National Board Scholarship, Junior School Certificate Examination, 2010.
- National Board Scholarship, Primary School Certificate Examination, 2007.

REFERENCES

AKM Azad

Assistant Professor,
Department of Mathematics and Statistics,
College of Science,
Imam Mohammad Ibn Saud Islamic University (IMSIU),
Riyadh 13318, Saudi Arabia.
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