

MD SADI ASHRAF

Linkedin: [linkedin.com/in/md-sadi-ashraf](https://www.linkedin.com/in/md-sadi-ashraf)

Github: github.com/SadiAshraf

Email: sadisaysgo@gmail.com

Mobile: +8801984531109



EDUCATION

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|---|---|
| • BRAC University
<i>Bachelor of Science - Computer Science; CGPA: 3.3</i> | Dhaka, Bangladesh
<i>January 2021 - October 2024</i> |
| • Dhaka City College
<i>Higher Secondary Certificate; GPA: 5.00</i> | Dhaka, Bangladesh
<i>August 2018 - December 2020</i> |
| • Khilgaon Government High School
<i>Secondary School Certificate ; GPA: 5.00</i> | Dhaka, Bangladesh
<i>January 2007 - July 2018</i> |

SKILLS SUMMARY

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- **Languages:** Python, PHP, JavaScript, SQL, Bash, Java
 - **Frameworks:** Scikit-learn, NLTK, SpaCy, TensorFlow, Keras, Django, Flask, NodeJS, Laravel
 - **Tools:** Kubernetes, Docker, Git, PostgreSQL, MySQL, SQLite
 - **Platforms:** Linux, Web, Windows, Arduino, Raspberry Pi, AWS, GCP, Alibaba Cloud, IBM Cloud
 - **Soft Skills:** Leadership, Event Management, Writing, Time Management

EXPERIENCE

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| • Kashful Foundation
<i>Various Roles (Full-time, On-site)</i> | Dhaka, Bangladesh
<i>Jan 2021 - Present</i> |
| ◦ Project Executive (Dec 2023 - Present): <ul style="list-style-type: none">* Project Management: Thrived in dynamic project environments, delivering projects that exceed expectations.* Result-Oriented Execution: Turned ideas into tangible results, demonstrating dedication to project success. | |
| ◦ Senior Project Development Manager (Jul 2022 - Nov 2023): <ul style="list-style-type: none">* Funding and High-Impact Projects: Secured substantial funding and led high-impact projects with measurable results.* Strategic Leadership: Excelled in environments demanding strategic thinking, adaptability, and focus on meaningful outcomes. | |
| ◦ Project Development Manager (Jan 2021 - Jun 2022): <ul style="list-style-type: none">* Milestone Achievements: Achieved significant milestones by securing funding and implementing projects addressing root causes of inequality.* Commitment to Equity: Demonstrated a collective commitment to creating a more just and equitable society. | |
| • Research Assistant
<i>Freelance (Remote)</i> | United States
<i>Jan 2024 - May 2024</i> |
| ◦ Research Support: Supported research projects by conducting literature reviews, collecting and analyzing data, and preparing reports and presentations. | |
| ◦ Technical Proficiency: Utilized research tools and software such as SPSS and Qualtrics to collect and analyze data. | |
| ◦ Remote Collaboration: Worked closely with a principal investigator and team members to ensure project goals were met, demonstrating strong communication and collaboration skills in a virtual setting. | |
| ◦ Process Improvement: Proactively looked for ways to improve processes and increase efficiency. | |

PROJECTS

- **Healthy Diet Planner Website (Web Development, Health Tech):** Developed a website to assist users in tracking, managing, and planning their meals for optimal health. The platform features a diet library, calorie and nutrition tracking, a meal planner, and personalized health recommendations. Users can set nutrition goals, track food intake, and receive dietary suggestions. The website also includes consultation and messaging options. Tech: Laravel, MySQL, JavaScript (June '23 - Aug '23)
- **Study Platform for BRACU Students (Web Development):** Developed a website using Laravel for providing an efficient study platform for BRAC University students. Tech: Laravel, PHP, MySQL, HTML, CSS, JavaScript (June '23)
- **Integrating Deep Learning for Crack Detection with Stochastic Modeling: Understanding and Analyzing Structural Degradation Dynamics (Deep Learning, Structural Analysis):** Simulated and analyzed structural degradation dynamics using deep learning for crack detection integrated with stochastic modeling. Tech: Python, TensorFlow, Keras, MATLAB (March '23)
- **Echoes of Change: Unveiling Indian Political Discourse (Political Discourse Analysis, Natural Language Processing):** Conducted an in-depth analysis of Indian political discourse by examining a dataset of seven thousand tweets. Employed sentiment analysis and political affiliation categorization to uncover patterns in political narratives and public opinion. Tech: Python, Google Translate, NLP, Sentiment Analysis (May '22)

PUBLICATIONS

- **A Vision-Based System for Road Crack Detection Using Hybrid Deep Learning Architecture: Authors:** Md Sadi Ashraf, Kibria K. Roman, Aksel Seitlari, M. G. Sarwar Murshed
Work in Progress
- **Unveiling Political Rhetoric: Exploring Natural Language Processing Methods to Analyze Political Discourse: Authors:** Tasnia Zaman, Sabrina Tajnim Sithi, Md. Sadi Ashraf
Work in Progress
- **Deep Learning Analysis of COVID-19 Lung Infections in CT Scans: Authors:** Syeda Sadia Alam, Ahmed Selim Anwar, Md Sadi Ashraf, Fateha Jannat Aydin, Prosenjit Roy, Montaser Abdul Quader, Mozdamer Abdul Quader
Presented at: 2024 First International Conference on Advances in Modern Age Technologies for Health and Engineering Science (AMATHE 2024)
Date of Conference: 16 - 17 May 2024
Publisher: IEEE
Conference Location: Shivamogga, Karnataka, India
- **Comparative Analysis of Diverse Architectures for Accurate Blood Cancer Cell Classification: Authors:** G. K. Md. Muttakin; Farhana Yesmin; Syeda Sadia Alam; Md Sadi Ashraf; Vishwanath Akuthota; Montaser Abdul Quader
Published in: 2024 International Conference on Computer, Electrical & Communication Engineering (ICCECE)
Date of Conference: 02-03 February 2024
DOI: 10.1109/ICCECE58645.2024.10497341
Publisher: IEEE
Conference Location: Kolkata, India
- **Evaluating Machine Learning Model Performance in Predicting Polycystic Ovarian Syndrome: Authors:** Fariha Jannat Ananna; Afsana Khan; MD Sadi Ashraf; Fatema Tuz Zohora; Md Tanzim Reza; Md Mizanur Rahman
Published in: 2023 IEEE 9th International Women in Engineering (WIE) Conference on Electrical and Computer Engineering (WIECON-ECE)
Date of Conference: 25-26 November 2023
DOI: 10.1109/WIECON-ECE60392.2023.10456391
Publisher: IEEE
Conference Location: Thiruvananthapuram, India
- **Increasing Image Classification Speed in Python Environments Using Convolutional Neural Networks Supported by High-Performance Computing: Authors:** MD Sadi Ashraf, Nobi Hossain, Fahme Faiza
Publication Date: 4 April 2023
DOI: 10.21203/rs.3.rs-2763126/v1

HONORS AND AWARDS

- Recipient of BRAC University Scholarship
- Recipient of Bangladesh Ministry of Education Scholarship

CERTIFICATIONS

- **ITEE Training - BRAC University:** Dhaka, Bangladesh (2023)
- **B-Meet - North South University:** Dhaka, Bangladesh (2023)
- **Online Leadership Course Certificate - Aspire Leadership:** Online (2023)
- **Machine Learning Training - Pantech Solutions:** Online (2023)
- **Critical Thinking Skills for the Professional Certificate - Coursera:** Online (2023)
- **Genome Assembly Programming Challenge Certificate - Coursera:** Online (2023)
- **Data Structures Certificate - Coursera:** Online (2023)
- **Algorithmic Toolbox Certificate - Coursera:** Online (2023)

REFERENCES

- **Annajiat Alim Rasel - Senior Lecturer and Coordinator of Undergraduate Programs, BRAC University:**
Email: annajiat@bracu.ac.bd, annajiat@gmail.com
Phone: +88-09638464646