

ARSLAN BISHARAT

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Interests

- Machine Learning
- Natural Language Processing
- Data Science
- Statistical Analysis

Education

Loyola University Chicago

Master of Science in Data Science

August. 2023 – April 2025

Chicago, IL

University Of the People

Bachelor of Science in Computer Science

Sep. 2021 – March 2023

Pasadena, CA

Experience

Loyola University Chicago

Graduate Research Assistant

Aug 2023 – Present

Chicago, IL

- Improved content-based ML algorithms against adversarial attacks. Contributed to a research paper on algorithm resilience.
- Led the creation of ML models to detect and reduce LGBTQ+ targeted cyberbullying on social media.

University Of People

Adjunct Instructor

March 2023 – Present

Pasadena, CA

- Led a course with a 95% pass rate, with 80% of students achieving grades above B.
- Consistently received high course evaluations, averaging 4.8/5.0 for effective communication and engaging teaching methods.

WebAutomation

Data Science Intern

December 2023 – January 2024

Remote

- Worked on making the company's data collection more accurate and faster. Used simpler machine learning techniques to enhance the quality of the data we gathered, making the process more efficient.
- Analyzed data collected from websites to find important trends. Helped the company make better business decisions by providing clear insights from complex data.

Contco LLC

Full Stack Developer

November 2021 – July 2023

Remote

- Developed the front end of a cross-platform mobile application for iOS and Android using Dart and Flutter, integrating Google Firebase for data management across web and mobile platforms.
- Collaborated in a team environment using Git for version control and utilized Android Studio for development, ensuring compatibility and efficient workflow for both iOS and Android systems.

Microverse

Code Reviewer

March 2021 – July 2023

Remote

- Led over 7000 code reviews in various languages (HTML, CSS, Ruby, Rails, JavaScript, React, and Redux), significantly boosting code quality and advancing junior developers' understanding of key programming concepts.
- Pioneered numerous merge requests to streamline project requirements, providing targeted guidance for students and notably raising the quality benchmark of code reviews.

Award & Honors

Merit Award

Master of Science in Data Science - Loyola University Chicago

2023 - 2025

Magna Cum Laude

Bachelor of Science in Computer Science - University Of the People

2023

Dean's List

Bachelor of Science in Computer Science - University Of the People

All semesters

Publications

Note: α indicates first author, β indicates second author.

Journal

Muhammad Arslan α , Muhammad Mubeen α , Giri Anandhi β . *A Single Channel-Based Neonatal Sleep-Wake Classification using Hjorth Parameters and Improved Gradient Boosting*

Muhammad Arslan α , Muhammad Mubeen α , Giri Anandhi β . *Achieving multi-objectives using a single neural network.*

Muhammad Arslan α , Muhammad Mubeen α , Giri Anandhi β . *Comparing Algorithm Performance in Machine Learning for Landslide Susceptibility Studies: An Overview.*

Muhammad Arslan α , Muhammad Mubeen α , Giri Anandhi β . *Strategies To Avoid Illegal Data Access.*

Preprints

Muhammad Arslan α , Muhammad Mubeen α . *XGBOOST and GLCM Features-Based Image-Based Malware Classification*

Muhammad Arslan α , Nan Miles β . *Comparative Analysis of Machine Learning Algorithms For Breast Cancer Classification*

Muhammad Arslan α , Muhammad Mubeen α . *Artificial Intelligence for a Better Future: An Investigation of Deep Learning Models for Real-World Problems.*

Muhammad Arslan α , Muhammad Mubeen α . *Transitioning Computational Neuroscience and Human-Centered Computation Research into Commercial Success.*

Technical Skills

Languages: Python, Bash, ECMAScript, GoLang, R, MATLAB, Common Lisp, Icon, Prolog.

Tools: Git, Maven, Visual Studio, jQuery, React.

DBMS: MySQL, MariaDB, MongoDB, PostgreSQL, SQLite.

Cloud: AWS, Kubernetes.

Certifications

Google Data Analytics Professional Certificate **2022**
Coursera

IBM Data Science Professional Certificate **2022**
Coursera

Full Stack Web Development Program **2021**
Microverse

Service

Data Science Department Representative **Aug 2023 - Present**
Loyola University Chicago - Graduate Student Advisory Council

- Participate in monthly meetings to discuss and vote on issues pertaining to graduate students.
- Engage in decision-making processes to address the needs and concerns of the graduate student community.

Mentor **May 2020 - Present**
Microverse

- Mentored junior web developers, focusing on skill enhancement and practical problem-solving. Conducted in-depth code reviews and offered personalized feedback to improve coding standards and project outcomes.
- Facilitated a collaborative learning environment, encouraging junior developers to engage in teamwork and effective communication. Guided them through complex technical challenges, fostering a culture of continuous learning and professional growth.