Sheikh A. Mannan

Fort Collins, CO

📱 +1 (903)-505-2488 | ✉ sheikh.mannan@hotmail.com | ✉ sheikh.mannan@colostate.edu | 🏠 sabdulm.github.io | 🐙 sabdulm | 💼 sabdulm

Education

Colorado State University   *Fort Collins, CO*

PhD Computer Science · CGPA 4.0   *January 2021 - May 2025*

    Relevant Courses: Machine Learning, Natural Language Processing, Intro to Distributed Systems

Lahore University of Management Sciences(LUMS)   *Lahore, Pakistan*

B.S. Computer Science · CGPA 3.28   *August 2016 - June 2020*

    Relevant Courses: Topics in Computer and Networks, Distributed Systems, Software Engineering, Network Centric Computing, Algorithms.

Experience

Colorado State University   *Fort Collins, CO*

Graduate Teaching Assistant - Software Engineering   *January-May, August-December 2021*

    Helped students understand the technical aspects of team-based development of a full-stack web application. Also involved in grading parts of projects, demos and maintaining the DevOps infrastructure for the course.

Medialogic Pakistan Pvt Ltd.   *Lahore, Pakistan*

Manager Data Science   *August 2020 - November 2020*

    Provided insights on behavioral patterns in television viewership from a representative sample population and helped extrapolate these findings using a probabilistic model onto a larger unlabelled population for improved television viewership statistics and ratings.

Lahore University of Management Sciences   *Lahore, Pakistan*

Undergraduate Teaching Assistant - Network Security, Algorithms, Intro. to Programming   *January 2019 - June 2020*

    Helped students understand concepts through labs, programming, and written assignments as parts of the course. Also graded these instruments as well as quizzes.

Projects

Music Genre Classification: A comparative study

    We can represent music audio in multiple formats, such as its audible features or MEL spectrograms. Using the GTZAN music dataset, we compared two classes of networks, fully connected and convolutional networks implemented in PyTorch, to understand what music features are more robust for classification.

Liquid Time Constant networks in classifying Brain Computer Interface tasks

    Brain-Computer Interfaces utilize continuous brain signals and translate them into commands depending on the nature of the device and task. We use Liquid Time Constant networks developed in TensorFlow and PyTorch by Ramani et al. to classify brain signals captured in a task to recognize a single letter.

Studying User Behavior on OLX

    OLX is one of the biggest online marketplaces, with more than a million users each day. To improve the usability and effectiveness of the platform, we carried out an analysis on the behavioral pattern of the users as to what actions they take on the platform. We suggested techniques to make the platform more efficient for users.

Skills

Programming	Python, JavaScript, Dart, Golang, C++, Java
Frameworks	Pandas, Numpy, TensorFlow, PyTorch, Flutter, NodeJS, ReactJS, Firebase, Wordpress, Hadoop, Spark, Agile
Tools	Git, ZenHub, Code Climate, Slack, VSCode, Docker, Google Colab, Jupyter Notebooks, Selenium, Postman

Honors & Awards

2020	**Graduation with merit**, Lahore University of Management Sciences	*Lahore, Pakistan*
2019	**Winner**, 23rd edition of SOFTEC '19 Programming Competition, Pakistan's biggest programming competition | Link	*Lahore, Pakistan*
2018	**Runner Up**, IEEE LUMS Coding Guru Programming Competition	*Lahore, Pakistan*