

Sheikh A. Mannan

Fort Collins, CO

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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