

# Ekram Alvi

Student - Data Science & Research

Hardworking and passionate with strong problem-solving & logistical skills, eager to learn and do more.

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## EDUCATION

### Master of Science - Applied Cognition & Neuroscience

The University of Texas at Dallas

05/2023 - Present

Richardson, TX

Concentration

- AI, Machine Learning, and Computational Modeling

### Bachelor of Science - Neuroscience

The University of Texas at Dallas

08/2020 - 05/2023

Richardson, TX

## EXPERIENCES

### Muslim Interscholastic Tournament (MIST) (05/2021 - Present)

**Nationals Data Coordinator** - Manage and analyze data for national and regional competitions using Python and SQL, enhancing data-driven decisions. Lead the migration of data processes to PostgreSQL on Amazon RDS, significantly improving data query efficiency.

### MSA Unity (10/2023 - Present)

**Director of Project Management & Data Analysis** - Develop data-driven frameworks to enhance the operational efficiency of MSAs across the U.S., influencing resource allocation and strategic planning.

### One For All (05/2022 - Present)

**President & Founder '22-'23, Advisor '23-Current** - Cultivating inclusive campus dialogue, fostering unity across cultures, religions, and races. Led interactive events, collaborated with officials, and partnered with campus organizations.

### Muslim Student Association UTD (07/2021 - 05/2023)

**Logistics Coordinator & Public Relations Committee** - Managed logistics for over 50 annual campus events, driving a 50% increase in digital engagement and improving campus inclusivity resources for over 1,000 Muslim students.

### UTD - Biology II (04/2022 - 08/2022)

**Teaching Assistant** - Facilitated interactive workshops and utilized innovative teaching methods to enhance understanding of complex biological concepts, boosting student participation and performance.

### Islamic School of Irving (08/2022 - 05/2023)

**Academic Tutor and Coordinator** - Designed and implemented customized educational programs for grades 1-9, significantly improving standardized test scores and fostering an engaging learning environment.

### Irving Private Tutoring (05/2020 - Present)

**Personal Tutor** - Provide personalized tutoring in mathematics and science subjects, applying analytical skills to improve student performance in SAT, STAAR, and AP exams.

## SKILLS

Python, R, SQL

Statistical Analysis

Machine Learning

Problem-Solving

Data Visualization

Project Management

Database

Team Collaboration

Communication

## PERSONAL PROJECTS

### System & Method for Mental State Determination (05/2018 - Present)

- Patented - No. 11751783 - Developed a machine learning model to predict mental health risks, utilizing biomarker data. Patented technology currently under trial.

### Examine EZ-Diffusion Parameters for Two Experimental Conditions (12/2022 - Present)

- Testing the EZ-Diffusion model using experimental data - utilizing Bayesian Inference, sampling methods, & data analysis.

### TensorFlow Object Identification for Construction Sites (05/2024 - Present)

- Developed a machine learning model using TensorFlow to identify and classify various components on construction sites such as plumbing, windows, pipes, and HVAC systems.

### Space X Data Science Capstone Project (03/2024 - 05/2024)

- Analyzed launch data using machine learning to predict outcomes, improving predictive models and operational strategies for commercial space launches.

## CERTIFICATES

### IBM Data Science Professional Certification (08/2023 - Present)

Certified in Data Science Foundations, Tools and Methodologies, Python for Data Science, AI & Development, Python Project, Data Analysis for Python and Machine Learning with Python.

### Google Project Management Professional Certification (05/2023 - Present)

Certified in Project Management Foundations and Project Initiation.

## LANGUAGES

English

Full Professional Proficiency

Urdu

Full Professional Proficiency