

# NABIL SALEHIYAN

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## MACHINE LEARNING NEUROSCIENCE DATA SCIENCE

GRADUATE STUDENT PURSUING M.SC. STUDYING COMPUTATIONAL NEUROSCIENCE AT THE UNIVERSITY OF TEXAS AT DALLAS. PROGRAM FOCUSES ON MACHINE LEARNING APPLICATIONS AND DATA SCIENCE. GRADUATION DATE: 05/2023

**EDUCATION: THE UNIVERSITY OF TEXAS AT DALLAS, RICHARDSON, TX | B.S. (2022) M.S. (2023)**

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**Master of Science in Computational Neuroscience; Specialization: Data Science/Artificial Intelligence GPA: 3.8**

### Recent Projects:

#### **Linear Regression & Neural Network Model for fMRI Autism Discrimination**

- Created a method to assist clinicians and researchers in determining ASD diagnosis using data from fMRI scans and machine learning algorithms
- Average accuracy of 88.0% with best neural network and 88.1% with best logistic regression model

#### **Supervised Learning Machine for Prediction of Defaulted Loan Status**

- Specified gradient descent algorithms and wrote code from scratch without the use of ML libraries
- Learning machine predicted status of loan recipient based on payment data from previous loan holders

#### **Multiple Correspondence Analysis/Discriminant Analysis/Partial Least Squares Correlation of Mental Health Literacy Test Scores of College Students**

- Used R to infer what characteristic of a student predicts their score on a mental health literacy test

### Relevant Coursework:

- Neural Net Mathematics | Advanced Multivariate Analytical Methods | Computer Science | Computational Modeling for Artificial Intelligence | Statistical Decision Making | Research Design & Analysis | Linear Algebra | Probability Calculus |

## **WORK EXPERIENCE**

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#### **Texas Biomedical Device Center, Richardson, TX | Research Assistant | 08/2020-12/2022**

- Research assistant in the auditory neuroscience lab working with hearing deficits associated with Autism
- High level of experience with behavioral and passive experiments conducted with rats
- Exposure to micro-construction of devices used on lab rats
- Shadowed brain mapping & tracheotomy on rats
- Ran experiments using MATLAB

#### **The University of Texas at Dallas | Richardson, TX | Data Analyst | CURRENT**

- Research assistant dealing with collection and analysis of data on depression & memory
- Processed and analyzed large datasets using R and Python
- Administered tests on study participants

## **STRENGTHS & AWARDS**

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- Julia, MATLAB, Python, C++, Java, JASP, Microsoft Office Suite
- Proficient organization, problem solving, communication, and critical thinking skills
- Able to grasp new concepts quickly and train new team members
- Disciplined and efficient with time management
- Recipient of the "Applied Cognition and Neuroscience Academic Excellence Scholarship in the Area of Neuroscience"