

# Mehrabi Hasan



Mhasan11@masonlive.gmu.edu



(540) 361 5302



<https://mehrabihasan.github.io>

## Education

Current: MS Computational Science |  
George Mason University | GPA: 3.67

BS: Computational Data Science|  
George Mason University|

## Skills

Languages: Python, R

Databases: SQL, Neo4j

Commercial Software: SPSS, SAS,  
MatLab, Tableau

Other Knowledge: Git, Netlogo, LaTeX

## Extra-Curricular

Towards Data Science Writer

*June 2020 - Current*

- Publish Articles to Towards Data Science
- Provide context and storytelling for topics in Machine Learning and Artificial Intelligence.

Founding President of Mason Data Science

*September 2018 - May 2020*

- Organized Meeting & workshops
- Gather Speakers and formulate projects
- Spread Awareness of Data Science to Mason student Body

Business Owner of Island Studios

*June 2017 - Current*

- Help lead a small team of Graphic Designers and Programmers
- Utilize Godot and Unity to develop innovative gaming.
- Assist in Production and Marketing Efforts.

## Mission Statement

Passionate Data Science student looking to find unique business solutions through Machine Learning and Data Analytics currently looking for internship or part time roles.

## Relative Projects

- Sept 2019 Sentiment Analysis Dashboard (Tableau/Python/R (Shiny))  
Scraped Reddit posts from R/Liberal and R/Conservative.  
Created an interactive dashboard for users to see the difference in Sentiment score between the two subreddits.  
Updated December 2020: Reflect Sentiment between the Presidential Candidates, as well as new Dashboard developed through R-Shiny.
- Nov 2019 Corner Pocket Analysis (Python/R)  
Analyzed and assessed the current needs of the on-campus game room.  
was able to uncover issues with game counters that went unnoticed  
Created metrics and benchmarks used to determine the quality of newly acquired arcade machines.
- Nov 2019 Traffic Modelling by Music (Netlogo)  
Building upon Uri Wilensky "Traffic 2 lanes", we simulated if cars listening to different music tempos had an effect on the flow of traffic in the highway.
- Dec 2019 Event Feedback Sentiment Analysis (Python)  
Analyze and ran a sentiment analyzer on feedback form given after on-campus events.  
Analysis allowed us to discover new ways in handling with customer satisfaction  
Sentiment Analysis done through TextBlob and VADER
- June 2020 Street Fighter II - Reinforcement Learning Agent  
Developed Reinforcement Learning Model to beat Street Fighter II.  
Utilized A2C algorithm to finish the campaign
- Dec 2020 South Park Social Network Analysis  
Textual and Social Analysis of the show "South Park".  
Developed an interactive dashboard to explore the varying social structures throughout the show.

## Relative Work

- June 2018 Move Crew Volunteer Analysis (Excel, R)  
Helped define assessment and analysis to GMU Housing  
Helped define parameters and KPIS for volunteers and Supervisors  
increased productivity by using classification to provide accurate placement of student needs.
- Aug 2019 GMU Student Centers Data And Assessment Specialist (Python, SQL)  
Defined Assessment goals for 2019 - 2020  
Help create and maintain Data Centered products  
Aid Marketing Strategies through Customer Analysis  
Provide Accurate Documentation and Reporting  
Helped lay foundation for Data Science

## Relative Knowledge

- Knowledge Natural Language Processing, Social Networks, Uni variate Statistics, Multivariate Statistics, Probability, Multivariate Calculus, Classification, Clustering, Business Analytics, Machine Learning