

- Matheus Mesquita Viana

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- Education:

- The Pennsylvania State University, University Park, PA August 2022 - May 2025 Bachelor of Science, Applied Data Science, GPA: 3.1 Minor in Computer Science
- Broward College, February 2021 - July 2022 Associate of Arts in Computer Science, Overall GPA: 3.9 (Highest Honors) Dean's List: Summer 2021, Fall 2021, Spring 2022

- Work Experience:

- AI Research Assistant, Emotional Intelligence Project, Dr. Huang February 2024 - Current
 - Literature review on multimodal emotional classification and interaction in large language models, NLP, and Computer Vision, with a wide emotional spectrum. Finetuned LLM's. Ran experiments to enhance multimodal emotion recognition and reasoning, by integrating audio, visual, and textual inputs using sophisticated language models.
- Team Scheduler, Pennsylvania State University August 2023 - Current
 - Directly working with the upper management team to oversee six front desks, scheduling and hiring over 200 employees. Assisting with summer conference housing assignments that provide for over 20 thousand students combined. Participate in team meetings and decision-making processes.
- Media Producer, Pennsylvania State University Harrisburg August 2022 - July 2023
 - Produced and filmed training and safety videos for all student housing and food services positions. Those are Kitchen, Barista, Cashier, ID Office Front Desk, and Mailroom. This was an individual project overseen by the Service manager.

- Organizations:

- Team Member, PSU IST Open-Source Software Group October 2023 - Current
 - - Lead by Professor Mathias Fonkam, this project aims to explore Linux based open-source projects for Application Development, Database Management Systems and Web Design
- Team Member, Nittany AI November 2023 - Current
 - - Participated in events, presentations, and programming competitions about AI.
- Team Member, Nittany Data Labs August 2023 - Current
 - - Participated in workshops, business interest meetings, and lectures surrounding Data Science

- Project Work Experience:

- Research Assistant, ROBERTA Go Emotions May 2024 - Current
 - - Used Python to finetune ROBERTA model with Google Go Emotions using Pytorch.
 - - Ran experiments to compare model to similar models on Hugging Face.
 - - Used results to improve model performance with further model finetuning.
- Team Lead, PSU Java Scheduler Program October - December 2023
 - - Java application to simulate class scheduling portal, for administrators and students.
 - - Created databases, and used SQL to access and manipulate the tables
 - - Created a GUI
 - - Object oriented program with multiple classes and files
- Analyst, PSU Correlation of Wages and Consumer Price Index November - December 2023
 - - Used Python to analyze Consumer Price Index data, and wages per education level from 2000 - 2022.
 - - Made data visualizations and wrote a detailed report.
 - - Using statistical models wrote conclusions on the results.
 - - Produced an RMD file for ease of interacting with the analysis.
- Lead Analyst, PSU Analysis-of-League-of-Legends-Win-Rate-Statistics December 2023
 - - Using R programming language, analyzed over 120,000 League of Legends matches to determine win percentage statistics based on in game statistics and objectives.
 - - Created data visualizations.
 - - Found the highest universal indicators for victory.
 - - Wrote a detailed RMD file reporting the results.

- Skills and Certifications:

- Programing Languages:
 - - Python, SQL, R, Java
- Machine Learning Certifications:
 - - Custom and Distributed Training with TensorFlow (June 21st, 2024) DeepLearning.AI
 - - Introduction - TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning (March 7th, 2024) DeepLearning.AI
 - - Convolutional Neural Networks in TensorFlow (March 7th, 2024) DeepLearning.AI
 - - Natural Language Processing in TensorFlow (March 7, 2024) DeepLearning.AI
 - - Sequences, Time Series and Prediction (March 7th, 2024) DeepLearning.AI
- Amazon AWS Cloud Associate (In progress)
- FERPA
- Tableau
- Hadoop
- J.P. Morgan Software Engineering Virtual Experience on Forage - September 2023