

# **Matheus Mesquita Viana**

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Portfolio: [zxmattmesq.github.io](https://zxmattmesq.github.io)

## **Education**

The Pennsylvania State University, University Park, PA (August 2022 - May 2025)

Bachelor of Science in Applied Data Science

Minor in Computer Science

GPA: 3.1

## **Work Experience**

### **AI Research Assistant – AI Emotional Intelligence, College of IST (Feb 2024 – Current)**

- Researched NLP and Computer Vision techniques, focusing on developing models to analyze a wide emotional spectrum.
- Fine-tuned large language models (LLMs) using TensorFlow, incorporating an improved dataset published on Hugging Face.
- Ran experiments integrating audio, visual, and textual inputs into language models, utilizing clustering techniques and data augmentation.

### **Team Scheduler – Pennsylvania State University (Aug 2023 – Current)**

- Oversaw scheduling operations across six front desks, coordinating the hiring of over 200 employees.
- Assisted with summer conference housing assignments and resource allocation.

## **Project Work**

### **Research Assistant – RoBERTa GoEmotions (May 2024 – Current)**

- Fine-tuned a RoBERTa model using PyTorch, leveraging multiple GPUs for parallel training.
- Evaluated model performance using precision, recall, and F1-score metrics.

**Team Lead – Penn State AI Advisor: Hack PSU (March 2024)**

- Developed a database encompassing Penn State's course offerings, resources, and health advisories.
- Built an AI-powered chatbot using Retrieval-Augmented Generation and the ChatGPT API.

**Skills and Certifications**

Programming Languages: Python, SQL, R, Java

Tools: Tableau, Hadoop

**Certifications:**

- Custom and Distributed Training with TensorFlow (June 2024)
- AWS Cloud Associate (In Progress)

**Organizations**

Advisor – PSU IST Open-Source Software Group (Oct 2023 – Current)

Team Member – Nittany Data Labs (Aug 2023 – Current)