BURGS Weekly Presentation

Broadening Undergraduate Research Groups

9/5/2025

Allie, Casie, Gayatri, Kim

Meet the new team members!

Gayatri

I'm a third year data centric computer science major. I was intrigued by this project after taking a class in extended reality systems last semester. I have a strong foundation in data analysis (pandas, NumPy, scikit-learn, etc), and can pick up where Claire left off in that regard. Additionally, if we want to expand this project to the Meta Quest, I have experience developing in Unity with the Meta Quest SDK. I want to use this project to broaden my understanding of building machine learning models for classification.

Kim

I'm a sophomore majoring in computer science with a minor in mathematics. I found out about the BURGs program from Prof. Hillman and was interested in the cybersecurity aspects of the AR/VR privacy project. My primary languages would be Java and Python. I am currently learning C in 2505 and command line in both 2505 and 2104. I'm really excited to learn throughout this new experience and fine tune my team working skills!

Project Strategy

Communication Plan

— Plan to work **MWF**, 10:30 AM - 12:30 PM

  BURGS Meetings **Fridays,** 3:30 PM - 5:00 PM

— Communication via iMessage group chat

Main Objectives

— Ensure validity of research across more room types, profilers, and headsets

— Enhance the Support Vector Machine (SVM)

— Gen-AI Evaluation on Google Gemini for App Auditing and Interpretations Project

Status Update

— All teammates have necessary development software

— Casie & Allie are finalizing the Github repo

— Scan Accesses:
  Kim - **906690419**
  Gayatri - **906621046**
  Casie - elevator access

Questions

1. What are your recommendations for the direction of the project this semester? Who is being assigned where?
   a. Where does Casie's project fit into this? Generative AI Evaluation focus? (Contact Dr. Yoon for guidance?)
   b. App Auditing - reevaluate on what to do due to current findings (statistical analysis may not be the way to go)
2. I want to learn PyTorch, and I saw all the ML was done in Jupyter notebooks using pandas and scikit learn, do you see any use cases for PyTorch? This is coming from someone who's not super familiar with the technology's use cases. - Gayatri
3. What knowledge should I catch up on, any specific languages or programs I need to become familiar with first? Are there any specific goals I should work for as a beginner? - Kim