RATEEB RIYASAT

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Education

University of Florida Gainesville, Florida
Bachelors of Science in Computer Science, Mathematics *May 2024*

- GPA: 3.64/4.0
- Relevant Coursework: Discrete Structures(current), Programming Fundamentals, Engineering Statistics, Combinatorics(self-taught)

Coding Projects

StickierNotes | *Python,PyQt5,QMake* Sept 2020 – Present

- Designed easy to read minimal graphical interface to permit seamless integration into the users workflow
- Opened possibilities for rapid development of new user-created commands with easy to use framework
- Implemented robust and meticulous reference system to allow for easy referencing of prior calculations

bbCropTool | *C++,Qt5,QMake* July – Aug 2020

- Utilized Qt5 to set up custom UI system that adapts to aspect ratio changes for both the app content and the imported file
- Built robust system for saving preset cropping layouts as files to be loaded in later to allow for easy integration into an existing pipeline
- Made intelligent auto-adapting slider framework to allow for easy adjustments to lower the learning curve required to easily adopt the utility in a team setting

Experience

Marketing Committee October 2020 – Present
University of Florida SASE South Regional Conference Planning Committee *Remote*

- Coordinated strategies to garner more participation before and during the event, garnering over 100+ applicants during the first couple weeks alone

Visiting Researcher Jun – July 2019
University of Tokyo *Tokyo, Japan*

- Proposed novel video prediction method utilizing Convolutional Long-Short Term Memory paired with an Artificial Neural Network based Voting System
- Oversaw the building of a remote GPU Farm for rapid and easy training and evaluation of Machine Learning Models
- Utilized Pytorch and Numpy to rapidly develop an initial prototype of the model for initial testing and further development

Achievements

Top 19% of Papers March 2020
Team14057 *M3 Mathworks Math Modeling Challenge*

Skills

Languages: Python, C/C++, SQL, JavaScript, HTML/CSS, R, MATLAB
Frameworks: Pytorch, PyQt5, Qt4/5, NodeJS, SQLite
Developer Tools: Jupyter Notebooks, Git, VS Code, Bash, LaTEX