Royce Churchill Schultz

571-354-9559   royce.schultz@colorado.edu   GitHub, LinkedIn: royceschultz

Education

University of Colorado, Boulder College of Engineering — Graduating May 2021

Computer Science & Applied Math, Double Major

3.6 Major GPA, 3.5 Cumulative GPA

Favorite Classes: Machine Learning, Natural Language Processing, Advanced Data Science, Computer Vision, Numerical Analysis, Applied Statistics

Projects

Cycling Power Calculator Python, Jupyter Notebook — Data Science

Utilized recorded GPS data from my bike ride to calculate power output and calories burned.

Conducted an experiment to test the coefficient of air and rolling resistance.

Optical Character Recognition Python, TensorFlow, Keras — Machine Learning

Developed a Keras model to classify color images of characters by training on low cost data generated using imaging libraries and random fonts to simulate real world text.

Utilized TensorBoard to compare the behavior and quality of different model structures.

Achieved 90% accuracy on a generated validation set and 46% accuracy on hand labeled set of road signs, building names, and license plates after training exclusively on generated data.

'Square Up' Event Planning Website Python, Django, AWS — Web Development

Leading a team of 5 peers to create a web application using agile development methods.

Conducting code reviews when pulling changes in feature branches to master.

Skills

Languages: Python, MatLab, C++, Scala, JavaScript, SQL

Markup: LaTeX, Markdown, HTML&CSS

Version Control: Git

Other Tools: RegEx, AWS-EC2, Arduino

Experience

Math Tutor CU Math Academic Resource Center — August 2019 - Present

Encouraging students to use their critical thinking skills to solve math problems.

Student Technician CU Office of Information Technology — May 2018 - May 2019

Created a web application to increase employee productivity by automating daily tasks.

Maintained technology in rooms across CU's campus and responded to on-call issues.

Learning Assistant, Calculus CU Math Department — January 2017 - May 2018

Answered student's questions & guided group discussion in intermediate Calculus classes.

Held regular office hours, aiding dozens of students each week.