Raymond A. Sutrisno

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Education

•University of Houston (2016 - 2020)

Major: Bachelors of Computer Science, Minor: Mathematics, GPA 3.85

Skills

Programming Languages Python, Java, C++, JavaScript

Web-Dev HTML, CSS, NodeJS, ExpressJS, Postgresql, Jekyll

Cloud GoogleCloud, Amazon Web Services

bash, git, Docker, make, linux/unix, LATEX, matlab Tools Machine Learning ScikitLearn, Keras, Tensorflow, numpy, pandas, OpenCV

Job Experience

•NSF Research Assistant Internship, University of Houston

Summer 2018

- Topic: Image Classification of Dewetting Microscopy
- Implemented image processing techniques enhance and extract features from microscopy images of polymer dewetting.
 - Techniques formalized into preprocessing pipeline for machine learning.
 - Trained and tested various models such as SVM, Neural Networks, Random Forest.
 - project-link: github.com/gtoti/Summer2018REU

•Research Assistant, University of Houston

Summer 2017

- Tasked with implementing "Query By Committee" active machine learning algorithms from research papers for galaxy distance estimation using photometric astronomical data.
- •Paper: R. Vilalta, R. Sutrisno, E. E. O. Ishida, R. Beck, R. S. de Souza, A. Mahabal, "Photometric Redshift Estimation: An Active Learning Approach" IEEE SSCI 2017.

• Teaching Assistantships, University of Houston

Recurring

- (Spring 2019) Advanced Machine Learning (for Graduates)
- (Fall 2018) Introduction to Computer Science (for Undergrads)
- (Spring 2018) Artificial Intelligence (for Undergrads)
- (Fall 2017) Machine Learning (for Graduates)

Projects

Vision Tracking module for UH autonomous drone team

Spring 2018

• ImageNet based convolutional classifier for identifying ground targets for autonomous drone competition.

Keegan's Korner Spring 2018

• 4chan like image board built using expressJS and Postgresql backend. Deployed as separate docker containers.

Fall 2018 Reamer IP Bot

- Discord bot used for WAN ip retrieval for house.
- Works as both a discord bot with command and a http server with JSON api.

Publications

- •R. Sutrisno, R. Vilalta, A. Renshaw: "A Machine Learning Approach for Dark-Matter Particle Identification Under Extreme Class Imbalance" ADASS 2018
- •R. Vilalta, R. Sutrisno, E. E. O. Ishida, R. Beck, R. S. de Souza, A. Mahabal: "Photometric Redshift Estimation: An Active Learning Approach" IEEE SSCI 2017

Awards

- •S-STEM Scholarship Recipient (2018 present)
- •University of Houston Deans List (2017 present)
- •HP CodeWars 2016 3rd Place, Hewlett Packard March 2016

HP Code Wars Computer Science Competition in Houston, TX