STEPHEN MALDONADO

SOFTWARE DEVELOPER

CONTACT

(863) 398-4242

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12101 University Blvd, Orlando FL

SKILLS

- Python
- Java
- Rust
- C

EDUCATION

M.S. Computer Science

University of Central Florida

Estimated Graduation: 12/2023

- ORCGS Doctoral Fellowship
- Research Assistantship

B.S. Computer Science

University of Central Florida

Graduated: 8/2022

- Burnett's Honors College
- Honors in the Major
- LEAD Scholar

PUBLICATIONS

University of Central Florida

Genetic Algorighm Representation Selection Impact on Binary Classification Problems

An ablation study on comparing different solution encodings in genetic algorithms can impact linear regression models.

Genetic & Evolutionary Computation Conference

Effects of imputation strategy on genetic algorithms and neural networks on a binary classification problem

Study of imputation on missing data and how it impacted neural networks versus a simpler linear-regression model backed trained by genetic algorithms.

PROFILE

I am a Computer Science graduate student at the University of Central Florida looking to enter the industry. I am interested in working in Blockchain and Web3 technologies. My background consists of big data and artificial intelligence, however my experience in academia in various research labs has enabled me to learn how to pick up new skills and concepts on demand.

WORK EXPERIENCE

Research Assistant

Appleseed Lab - UCF — 08/2022 - Ongoing

- Developed pipeline to transfer data from various government datasets into a singular resolved dataset in Python using libraries like Pandas
- Wrote queries to create, manage, and access Neo4j Graphing database using Cypher
- Worked with data extracted from various financial institutions including holdings, government registrations, transactions, mergers, etc.
- Worked on a project under DARPA which allowed collaboration with other organizations like Financial Industry Business Ontology.
- Analyzed datasets for patterns to automate information extraction under the direction of the FDIC

Research Assistant

Natural Language Processing Lab - UCF — 5/2020 - 7/2022

- Designed new metric for automatic text summarization evaluation
- Worked with different natural language automatic text summarization
- Discovered and implemented various preexisting text summarization evaluation metrics
- Evaluated hundreds of texts summaries

Research Assistant

Evolutionary Computation Lab - UCF — 12/2020 - 8/2022

- Led an individual research project on Genetic Algorithms
- Worked with major Python libraries including Scikit-Learn
- Published two research papers
- Developed genetic algorithm program focused around modularization and interchangeability
- Implemented algorithm from different authors descriptions of implementations
- Utilized large data sets to train linear regression models utilizing different genetic algorithms in an ablation study