Robbie Michael Ferrand

Statistician
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Summary

Dynamic data professional with 3+ years of experience in machine learning, predictive modeling, and advanced analytics. Spearheaded a project that improved resolution times for US power outages by 25%. Excited to contribute a blend of statistical knowledge, public speaking passion, and programming expertise to drive decisions in the data industry starting December 2024.

Technical Skills

Scripting Languages and Software: R (Quarto, Shiny), SAS, Python (Pandas, Flask, Scikit), JMP, Git, Docker
Querying and Data Visualization: SQL, Microsoft Office (Excel, Word, PowerPoint), LaTeX

Education

North Carolina State University — Raleigh, NC
Master of Science, Statistics — *Expected December 2024*
PhD Coursework — University Graduate Fellowship

University of Central Florida — Orlando, FL
Bachelor of Science, Statistics — *August 2018 – December 2021*
Cumulative GPA: 4.0 — Valedictorian

Experience

Graduate Student Instructor — Raleigh, NC
North Carolina State University — *August 2023 – December 2024*

- Create, prepare, and deliver material for weekly lectures and exam review sessions
- Perform administrative duties such as responding to emails, holding weekly office hours, grading exams, scheduling meetings, and collaborating with other instructors
- Achieve an average instructor effectiveness rating of 4.7/5 from 79 anonymous student evaluations over two semesters

Research Analyst — Orlando, FL
U.S Department of Homeland Security — *January 2020 – July 2023*

- Conducted Bayesian analysis and probability theory to hypothesize new power outage prediction models, increasing disaster detection speed by 34%
- Utilized Python and Docker to simulate power prediction models and deployed a web API with Flask to manage and automate a big database
- Analyzed the effectiveness of models and synthesized research conclusions, improving accuracy and efficiency in handling power outages by 25%.

Projects

Crime Rate on Matriculation Rate — Raleigh, NC
North Carolina State University — *January 2024 – April 2024*

- Employed multiple regression methods (beta, spatial, quantile) in R to examine their effectiveness in the relationship between crime rate and matriculation rate of universities
- Consolidated data analysis, literary review, and regression results into a professional research paper and delivered a structured presentation, finding a 51% explanation of variability