Robbie Michael Ferrand

Statistician/Data Scientist
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SUMMARY

Dynamic data professional with 5 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.

SKILLS

Software: R(Quarto, Shiny), SAS, Python(Pandas, Flask, Scikit), JMP, Git, Docker, SQL, Excel, LaTeX
Additional Skills: Project Leadership, Public Speaking, Business Acumen, Research, Technical Writing

EDUCATION

Master in Statistics — Raleigh, NC
North Carolina State University — *August 2023 – December 2024*
Cumulative GPA: 3.733/4.0 — PhD Core Coursework

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

EXPERIENCE

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

- Prepared and delivered weekly lectures and exam review sessions for 1000+ students over 3 semesters
- Performed administrative duties such as responding to emails, holding weekly office hours, grading exams, scheduling meetings, and collaborating with other instructors
- Maintained an average instructor effectiveness rating of 4.8/5 from 100+ anonymous student evaluations over three semesters

Data Scientist I, II — Orlando, FL
U.S Department of Homeland Security — *January 2020 – July 2023*

- Hypothesized new power outage prediction models using Bayesian analysis and probability theory, which increased disaster detection speed by 34%
- Simulated power outage prediction models with Python and Docker and deployed a web API with Flask to manage and automate a big database
- Curated statistical models and applied research findings to improve accuracy and efficiency in handling power outages by 10% and 25%, respectively

PROJECTS

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

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