WILLIAM GUY
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LinkedIn · GitHub · Website

PROFESSIONAL SUMMARY

Data Scientist with an M.S. from UC San Diego and a B.A. in Statistics from Cornell University, with applied experience in healthcare, robotics, and sports analytics. Proven ability to extract insights from complex datasets using Python, R, and SQL. Recognized as a team leader on and off the field as a varsity athlete.

EDUCATION

Cornell University – Ithaca, NY B.A. in Statistics	**University of California, San Diego** – San Diego, CA M.S. in Data Science

RELEVANT COURSEWORK

- **Foundational Probability/Statistics in Data Science**
  Built a predictive model of NFL Quarterback performance using 25 years of data. *(A+)*
- **Python for Data Science**
  Final project on hurricane data strengthened A/B testing and power analysis skills.
- **Statistical Computing**
  Defined success metrics for hospitals; learned generalized frameworks for different industries.
- **Big Data Analytics Using Spark**
  Forecasted taxi demand and rider duration using historical NYC cab data.

TECHNICAL SKILLS

- **Languages**: Python, R, SQL
- **Machine Learning**: Supervised/Unsupervised Learning, Neural Networks, Feature Engineering, PCA, Predictive Modeling, A/B Testing
- **Statistical Inference & Analysis**: EDA, Correlation Analysis, Power Analysis
- **Tools & Libraries**: Pandas, NumPy, Matplotlib, Seaborn, ggplot2

WORK EXPERIENCE

Brave Career – Remote
Data Science Intern
June 2024 – September 2024

- Analyzed multi-variable health datasets from hospital in Ontario to identify risk patterns in patients with asthma and COPD.
- Conducted correlation and PCA on clinical data, revealing BMI and weight as top predictors of CRD-related mortality.
- Increased hospital's mortality risk identification of respiratory diseases by 45%.

AMBOT – San Luis Obispo, CA
Data Intern (Robotics)
May 2020 – August 2022

- Analyzed autonomous robot testing protocols to refine hardware and development roadmaps.
- Developed an inventory system using real-time data logs to improve warehouse logistics. Increased efficiency by 75%.
- Built and assembled the "Centaur" robot for the International Space Station in support of NASA's robotics program.

PERSONAL PROJECTS

NFL Wide Receiver Career Success Prediction

- Built a neural network model to predict WR success based on rookie stats, combine metrics, and draft position.
- Demonstrated that earlier draft selection correlates with higher average fantasy points.
- Found limited predictive value in combine metrics like 40-yard dash, bench press, and broad jump.

Personal Website