WILLIAM GUY
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LinkedIn · GitHub · Website

PROFESSIONAL SUMMARY

Analytical professional with an M.S. in Data Science from UC San Diego and a B.A. in Statistics from Cornell University, with applied experience in healthcare, robotics, and sports analytics. Skilled in SQL-driven data analysis, dashboarding, and translating complex datasets into actionable insights. Known for leadership, communication, and teamwork as a four-year 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

- **Core Languages & Tools:** SQL, Excel, Tableau, Power BI, Looker, Python, R
- **Data Analysis & Reporting:** Exploratory Data Analysis, A/B Testing, Correlation Analysis, Power Analysis, Time Series Forecasting
- **Modeling & Statistics:** Predictive Modeling, Feature Engineering, Principal Component Analysis (PCA), Monte Carlo Simulation
- **Business & Productivity Tools:** Slack, Microsoft Word, Visual Studio, Git/GitHub, Google Workspace, Microsoft Access, VBA
- **Libraries & Frameworks:** Jupyter Notebook, Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, ggplot2, PyTorch, TensorFlow

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 a warehouse inventory system, utilizing SQL to track part usage, optimize restocking cycles, and improve logistics efficiency by 75%.
- Analyzed Interact Centaur "visual" data, deployed to the International Space Station through the European Space Agency.

PERSONAL PROJECT - NFL Wide Receiver Career Success Prediction

- Built a predictive model using TensorFlow to predict NFL wide receiver success, training on 250+ players using rookie stats, combine results, and draft position.
- Achieved 78% classification accuracy in identifying top-quartile performers based on 3-year fantasy point averages.
- Analyzed 8 key combine metrics and demonstrated that 2 (40-yard dash, bench press) had <10% contribution to predictive accuracy, challenging conventional scouting assumptions.