

MORGAN CROSS

Data Scientist

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Proud veteran with a proven history in tackling demanding learning curves with a tenacious and resourceful approach; rapidly producing value added. My diverse background in biology, aviation, and logistics has led me to find my love in solving complex, ambiguous puzzles with data driven solutions.

TECHNICAL SKILLS

Python - SQL - Tableau - Matplotlib - Seaborn - MySQL - Pandas - NumPy - PySpark - Git - Applied Statistics - Machine Learning: Classification, Regression, Optimization - Natural Language Processing - Data Storytelling - Web Scraping

DATA SCIENCE PROJECTS

[Myers-Briggs Twitter Assessment](#) / Present

Employed XGradientBoost modeling to determine if individuals' tweets and behavior fit one of the Myers-Briggs personality domains. Used the Twitter API, nltk, and Scikit-learn k-means clustering to acquire and explore for themes in word use and sentiment across the types and domains.

[GitHub NLP](#) / Oct 2022

Developed a classification model using TF-IDF on 1000 web scrapped READMEs to predict the repository's programming language. Used libraries including nltk, BeautifulSoup, Pandas, Seaborn, and Matplotlib to wrangle and explore the data. The Decision Tree model produced a 69% accuracy, outperforming Random Forest and Naïve Bayes Multinomial models.

[WineSpectator Score](#) / Sep 2022

Utilized classification modeling to predict scoring of wines using the top 100 wines from 1988 to 2019, web scraped from WineSpectator. Implemented a combination of Pandas, nltk, Seaborn, Matplotlib, and Requests to wrangle and evaluate wine scoring. I then used Scikit-learn to create a Decision Tree Model that almost tripled the baseline accuracy.

PROFESSIONAL EXPERIENCE

United States Army - Fort Riley, KS / Powidz, Poland

Ready Reserve Commander / Sep 2021 - May 2022

- Prioritized logistical initiatives to spearhead emplacement of 4 personnel management projects worldwide; all balanced and achieved with competing priorities, shared resources, and restricted personnel
- Recruited a wide breadth of stakeholder buy-in and directly enabled on-call response and availability in the event of further Russian aggression; a feat accomplished in 10% of the typical preparation timeline
- Led a 77-member organization, a position typically granted to officers above my rank; managed 43 rotating teams' short-notice missions across North America to support over 10,000 COVID-19 medical responders

Company Executive Officer / Aug 2020 - Aug 2021

- Exercised strong analytical skills to optimize projecting out training events and individual planning efforts as the unit leader's primary advisor; identified blind spots early, translated findings into actionable business insights for impact
- Developed and deployed U.S. postal delivery strategies across 17 Eastern Europe locations and ensured compliance with Federal law, timelines, and budget limitations; resulted in over 60,000lbs of mail delivered
- Collaborated with multinational forces to meet contract timelines and agricultural cleaning standards; successfully deployed and redeployed the unit's personnel and over \$1 million of equipment

Squadron S-1 (Personnel Officer) / Dec 2018 - Jul 2020

- Served as the strategic thought advisor for senior leaders on all personnel analytics; administratively supported 500+ aviation personnel throughout 4 different countries in Europe during a 9 month deployment
- Conducted data management as the people leader of 8 Soldiers working within 7 database systems to execute key Human Resources functions for the Squadron; digested data was presented at bi-weekly stakeholder meetings

EDUCATION

Codeup

Certification of Completion / Nov 2022

Fully-immersive, project-based 20-week career accelerator that provided 670+ hours of expert instruction in applied data science. Developed expertise across the full pipeline (acquisition, preparation, exploration, modeling, storytelling), and become comfortable working with real, messy data to deliver actionable insights to stakeholders.

University of Illinois at Urbana-Champaign

Bachelor of Science / May 2018

Completed undergrad studies focusing on molecular and cellular biology