ERIK KING-VARGAS

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Memphis, TN

SKILLS

- Python: Pandas, Seaborn, Dash, Plotly

- R: tidyverse, dplyr, ggplot, lubridate, RShiny

- Excel: Pivot Tables, Visualizations, Creating Macros, Editing VBA

- Microsoft Power BI: Data Models, Dashboards, PowerQuery M, DAX

- Git: Version control building my portfolio, thesis work with my advisors

- SQL: SQL Server, PostgreSQL, MS Access

- SAP Business Objects Enterprise BI: (Query, Model, Dashboard, Create Measures)

- LaTeX: Typesetting Documents (to create my thesis and this resume)

EXPERIENCE

Navy Recruiting Command HQ   October 2022 - Present
Operations Research/Business Intelligence Analyst   *Memphis, TN*

- Provide repeated strategic, operational, and tactical analytical insight in support of senior executives and a distributed 4,000-member recruiting force stationed throughout the United States

- Directly support national operations department by creating automated reports in **R Studio** and **Power BI**, to include DAX and PowerQuery M, in support of annual 40,000+ recruiting missions

- Forecast payment of the Navy's $300M+ annual Enlistment Bonus program across a 5-year defense plan by leveraging **Python**, **MS Access Databases**, and **Excel**

- Utilize **Natural Language Processing** and classification models in **R Studio** to analyze Navy call center data and enhance applicant customer service

Naval Nuclear Power Training Command   November 2015 - August 2020
Program Manager for Nuclear Physics Division   *Charleston, SC*

- Trained and mentored a department of 15 officers that performed a combined effort of over 7,000 hours of instruction

- Guided the classified nuclear physics curriculum conversion to modern power plant standards with over 1000 pages of material and 100% accuracy

- Utilized **Python** and **Excel** to perform regression and survival analysis on student attrition and throughput by using **Pandas** and **Scikit-Learn** Python packages

- Analyzed student exams to predict trends in question performance using Excel forecasting and plotting

Instructor

- Instructed students in the fields of nuclear physics, reactor theory, and thermodynamics

- Maintained knowledge and qualification of current Naval nuclear reactor platforms

- Conducted strict audits of exams and qualifications of nuclear operators consistent with Naval Reactors and DOE requirements

EDUCATION

Naval Postgraduate School   September 2020 - September 2022

Master of Science in Operations Research: Thesis in Optimization of Spatial Sensor Placement

Certificate in Operational Data Science and Statistical Machine Learning

Certificate in Systems Analysis

University of California, Santa Barbara   September 2011 - June 2015

Bachelor of Science in Mathematics

Minor in Germanic Studies