Khoki Bernier

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TECHNICAL SKILLS

- **Coding & BI Tools:** SQL, Python, VBA, Tableau, MS Excel (pivot tables/charts, power query)
- **Skills:** Data analysis and Visualization, Regression Analysis, Clustering (K-means, hierarchal), process audit
- **Packages:** Pandas, Numpy, Sklearn, Matplotlib, BeautifulSoup

SELECTED WORK EXPERIENCE

NTT DATA   **September 2020 – Present**
Data Analyst Specialist   *Arlington, VA*

Accenture   **October 2016 – November 2018**
Senior Data Analyst   *Arlington, VA*
- Developed KPI metrics to enhance process visibility and increase client on-time delivery rates by 10%+
- Mapped out dashboard data and process flows and setup preventative alerts that enabled proactive troubleshooting
- Report building (impact analysis, crosstab, drilldown) and ad hoc data requests using SQL and data visualization tools

PricewaterhouseCoopers   **July 2015 – August 2016**
Risk Assurance Experienced Associate   *McLean, VA*
- Led an evaluation of the design and operating effectiveness of internal controls for one of the world's largest federal credit unions with a ~$1M budget that was completed ahead of schedule and within budget
- Conducted process walkthroughs and documentations with client contacts and C-level executives
- Identified deficiencies and consulted on remediation objectives for processes around financially significant applications that could materialize to fraudulent activity or inaccurate financial statement assertions

American School Way, Lexicom, Freelance   **January 2019 – June 2020**
English Second Language Teacher   *Medellin, Colombia*
- Taught English to beginner, intermediate, and advanced level students from ages 10 - 60+
- Created lesson plans, activities, and cultural events that increased cultural literacy and awareness

MACHINE LEARNING PROJECTS

NBA Player Stat Prediction Model - Supervised Learning
- Built NBA player stat prediction model that outperformed ESPN's player projections for the 2019 season using multivariate and random forest regression, weighted averages, and average % change by age with matplotlib and sklearn
- Web scraped and wrangled 15+ years of NBA team and player data using pandas, BeautifulSoup, and numpy
- Created NBA team dashboard in Tableau that lets user view prior year data and current roster and predict win %

NYC Neighborhood Clustering by Crime Type - Unsupervised Learning
- Used K-means clustering algorithm to cluster ~200 NYC neighborhoods by crime type (violent, theft, traffic, etc)
- Built Tableau dashboard to help users evaluate NYC neighborhoods by crime type, population, and GDP per capita
- Mapped crime location to nearest neighborhood location using minimum Euclidean distance between coordinates

EDUCATION

Virginia Tech   **August 2011 - May, 2015**
B.S. Business Information Technology - Operation and Supply Chain Management   *Blacksburg, VA*
- In Major GPA: 3.76

INTERESTS & ADDITIONAL SKILLS

- **Certifications:** ICAgile Certified Professional, TEFL (Teaching English as a Foreign Language)
- **Foreign Languages:** Japanese (Advanced Proficiency), Spanish (Advanced Proficiency)
- **Interests:** Data (Science, Analysis, Visualization, Engineering), Learning, Teaching, Problem Solving, Spanish, Athletics
- **Community Service:** The Next Step Public Charter School, Special Olympics