

Khoki Bernier

Khokibernier@yahoo.com - (703) 203-0867 - Alexandria, VA - <https://khokibernier.com/>

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

Data Analyst Specialist

September 2020 – Present

Arlington, VA

Accenture

Senior Data Analyst

October 2016 – November 2018

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 reduced production downtime by 66%
- Report building (impact analysis, crosstab, drilldown) and ad hoc data requests using SQL and data visualization tools

PricewaterhouseCoopers

Risk Assurance Experienced Associate

July 2015 – August 2016

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

English Second Language Teacher

January 2019 – June 2020

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

B.S. Business Information Technology - Operation and Supply Chain Management

August 2011 - May, 2015

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