

Parker J. Dixon

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SKILLS

Languages and Libraries	Python, HTML, CSS, Pandas, Numpy, Scikit-Learn, BeautifulSoup, Scrapy, Selenium, Flask, SQL, Git
Visualization	D3, Matplotlib, Seaborn, Tableau
Machine Learning	Regression, Classification, NLP, Clustering

EXPERIENCE

Metis · New York, NY

Data Scientist · April 2018 to Current

- 12-week data science bootcamp focusing on the fundamentals of data science, including programming in Python, machine learning methods, and data visualization through lectures and project work.
- **Project 1:** Analyzed MTA data in Pandas in order to locate busiest subway stations by time of day. All results were visualized using Matplotlib.
- **Project 2:** Built a regression model to predict NBA rookie statistics from college performance using BeautifulSoup to scrape data, and Scikit-learn to create models using K-Best feature selection and Lasso and Ridge regularization; used Flask to share projections for the current draft class.
- **Project 3:** Built a random forest classification model to determine whether or not a startup would present an exit opportunity for a VC given to-date funding; displayed results using a Flask app with D3.
- **Project 4:** Analyzed job description data with Scikit-learn NLP methods and then used topic modeling to do a clustering analysis to create a career path visualization tool across industries with Flask and D3.
- **Project 5:** Tracked player movement in squash matches using a pre-trained CNN for player detection, a separate CNN to map the court at different camera angles, and OpenCV to create analytics on the matches.

KPMG LLP · New York, NY

Risk Analytics Associate · July 2016 to March 2018

- Assisted a large bank in building a system to enhance firmwide capital stress testing (CCAR/DFAST) data aggregation methods by writing aggregation logic, developing canned reports in Excel with VBA-enhanced capabilities, and validating system output compared to expected results and FRB edit checks.
- Developed tool in VBA to analyze identified issues and data deficiencies at a large bank and generate reports based on searches for user-specified keywords.
- Developed data lineage documentation at multiple large banks, focusing in particular on market risk stakeholders; facilitated documentation process by analyzing model code and reviewing model documentation.
- Provided weekly internal status reporting metrics to KPMG leadership using VBA to analyze data output of firmwide opportunities and revenue streams.

Prudential Financial · Woodbridge, NJ

Actuarial Leadership Development Program Intern · Summer 2014, Summer 2015

- Analyzed monthly data for approximately 10,000 pension contracts in order to identify long term trends and performance relative to expectation in the contracts; automated this monthly process in VBA.
- Assessed individual annuity and pension contracts to identify source of earnings and flag potential data collection errors.
- Validated annuity product models in VBA by recreating outputs with in-cell Excel formulas and editing code as needed.

Vanderbilt University · Nashville, TN

Probability and Statistical Inference Teaching Assistant · Spring 2015 to Spring 2016

- Taught and graded multiple weekly classes with 10-20 undergraduate math students.
- Provided individual aid and guidance to students through office hours.

EDUCATION

Vanderbilt University

Bachelor of Arts in Mathematics 2016

Minor in Financial Economics

GPA: 3.3; Dean's List; Club Squash Team Captain