KATIE CAO

DATA SCIENCE & ANALYTICS

CONTACT

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BACKGROUND

Experienced Data Scientist with 3+ years of building predictive analytics solutions to increase efficiency and revenue with a niche focus on behavioral science

EDUCATION

2019

FORDHAM UNIVERSITY [NEW YORK, NY]

Master of Science in Data Science

GPA: 3.8/4.0

2017

MERCYHURST UNIVERSITY [ERIE, PA]

Bachelor of Arts in Finance and Accounting, Double Major

GPA: 3.93/4.0 Summa Cum Laude Graduated top 5% of the class

TECHNICAL SKILLS

- Data Analysis
- Statistics and Probability
- Data Visualization (Tableau, Looker, PowerBI)
- Database Management
- Python, R, SQL
- Pandas, Scikit-learn, NLTK
- Apache Airflow, BigQuery
- Google Cloud Platform, MongoDB, Google Analytics

AWARDS

- First Prize 2018 Fordham
 Consulting Case Competition
- Honorable Mention 2019
 Fordham Data Crunch Basketball
 March Madness Bracket Prediction

EXPERIENCES

03/2020 - PRESENT

NEW YORK, NY

Data Analyst | automotiveMastermind (part of IHS Markit)

- Perform ad hoc analyses to resolve data issue inquiries from clients
- Automate the extract, transform, load (ETL) pipeline for routine bulk updates using SQL and Power Query, saving 80% time spent on the process
- Evaluate and monitor reports on databases through MongoDB, real-time analytics dashboards and on Google Cloud Platform environment
- Detect and analyze data errors, system bugs, and collaborate with product managers and software engineers to test new product features and bug fixes

07/2019 - 09/2019

NEW YORK, NY

Data Scientist | Zenon Al

- Facilitated the development of customer segmentation tool to reduce customer churning using Artificial Neural Network and XGBoost algorithms by using pandas to aggregate and clean 500,000+ rows of data for online trading platform client E*TRADE
- Streamlined client's internal paperwork process by 30% by building a Natural Language Processing tool using Python regular expressions that extract contract terms from sentences

08/2018 - 07/2019

NEW YORK, NY

Data Scientist | Fordham Design Lab - Gabelli School of Business

- Wrote Python scripts to scrape text data from 2k+ research papers and F500 companies' website to perform text analytics and statistical modeling to predict machine learning application in major US health care companies
- Set up the ETL pipeline to clean, aggregate, and visualize 10GB of data into interactive dashboards in order to make recommendation for businesses

08/2017 - 08/2018

NEW YORK, NY

Senior Associate | Ideas42

- Analyzed A/B Testing results to validate project hypotheses based on behavioral economics framework
- Collaborated with behavioral scientists and project managers to ensure resource allocation and project timeline
- Streamlined financial reporting process by 50% by writing VBA macros to automate consolidation tasks for each project
- Received an early promotion for outstanding work performance

DATA SCIENCE & MACHINE LEARNING PROJECTS

College Basketball Bracket Prediction

03/2020-05/2020

 Engineered new features and applied Random Forest, Logistic Regression algorithms and GridSearch to predict 2019 NCAA Men's College Basketball Tournament bracket with 79% accuracy and 0.53 log loss

Employee Turnover Prediction – HR Analytics

06/2020-08/2020

Performed Exploratory Data Analysis and built Random Forest and Gradient Boosting classifiers with Cross Validation, tackling data imbalance using SMOTE to predict employee attrition

Stock Portfolio Recommendation Using Sharpe Ratio 06/2020

 Created a S&P 500 stock portfolio with a 7% risk-adjusted return by using pandas and Beautiful Soup to scrape data from Yahoo Finance, calculating Sharpe Ratio, storing, and querying it from a PostgreSQL server