KATIE CAO

DATA SCIENCE & ANALYTICS

CONTACT

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PROFILE

Background in consulting with focus on building solutions using data analytics and behavioral economics to improve efficiencies and revenue.

EDUCATION

2019

FORDHAM UNIVERSITY [NEW YORK, NY]

Master of Science in Analytics

GPA: 3.80

2017

MERCYHURST UNIVERSITY [ERIE, PA]

Bachelor of Arts in Finance and Accounting

Summa Cum Laude

TECHNICAL SKILLS

- Statistics and Probability
- Machine Learning
- Natural Language Processing
- Data Visualization
- Database Management
- Python, R, SQL
- Pandas, Scikit-learn, NLTK

AWARDS

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

EXPERIENCE

JUL 2019 - SEP 2019

NEW YORK, NY

Data Scientist Intern | Zenon Al

- Developed customer segmentation tool using Artificial Neural Network and XGBoost algorithms with Python and Oracle MySQL to reduce the number of churners by 10% for an online trading platform client
- 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

MAR 2018 - JUL 2018

NEW YORK, NY

Senior Associate | Ideas42

- Received early promotion for outstanding work performance
- Led a team of two by providing technical guidance and engagement opportunities
- Provided regular reporting on project performance to leadership team and high-level executives
- Streamlined reporting process by 50% by writing VBA macros to automate consolidation tasks

AUG 2017 - MAR 2018

NEW YORK, NY

Associate | Ideas42

- Performed both qualitative and quantitative analyses to evaluate business and management decisions using key metrics
- Coordinated with cross functional teams in the NY, Boston, DC, and San Francisco offices to build behavioral solutions based on evaluation results
- Queried data from internal and client's databases to perform ad hoc reporting

PROJECTS

College Basketball Bracket Prediction

 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

 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

 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