

# WENYI (JULIA) XU

Fresh Graduate passionate about turning data into valuable insights. Proficient in analyzing data and implementing statistic and machine learning methods with Python to real-world business problems, including description, prediction and optimization problems  
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## EDUCATION

<b>Columbia University</b>	New York, NY
<b>M.S. Business Analytics (GPA: 3.83 / 4.00)</b>	Aug 2019 - Dec 2020
• Coursework: Python, R, SQL, Statistics and Simulation, Optimization, Data Visualization, Machine Learning	
<b>Shanghai Jiao Tong University (SJTU)</b>	Shanghai, CN
<b>M.E. Electronic Engineering (GPA: 3.50 / 4.00)</b>	Sep 2016 - Mar 2019
<b>Nanjing University (NJU)</b>	Nanjing, CN
<b>B.S. Electronic Engineering (GPA: 4.68 / 5.00, top 5%)</b>	Sep 2012 - Jun 2016

## PROFESSIONAL SKILLS

- Proficient with Python (NumPy, pandas, Matplotlib, seaborn, scikit-learn, SciPy, Keras), R, SQL programming language
- Solid knowledge in statistics (probability distribution models and hypothesis testing) and ML/DL methods (regression, classification, clustering, dimension reduction, neural networks, ensemble methods)

## WORK EXPERIENCE

<b>Panasonic North America</b>	Newark, NJ
<b>Data Scientist Intern / Business Intelligence Group</b>	Aug 2020 - Dec 2020
• Successfully predicted monthly revenue by forecasting transportation time using XGBoost regression model in scikit-learn	
• Kept revenue prediction error under 15% by offsetting the error with constants optimized by RandomWalk Algorithm	
• Recommended new products based on product specialists' insight and competitors' data scraped by professional tool import.io	
• Conducted sentiment analysis on customer reviews from online distribution platforms using Azure Cognitive Service	
• Built interactive reports using Power BI and Excel on an ad hoc basis to visualize analysis results	
<b>Balyasny Asset Management</b>	New York, NY
<b>Quantitative Analyst Intern / Equity Group</b>	Jan 2020 - May 2020
• Forecasted short-term stock price movements based on historical time-series data with a Random Forest (RF) model in scikit-learn	
• Identified big financial crises in the past 30 years by analyzing the historical S&P 500 index and VIX volatility index using Python	
• Converted 20 classical trading strategies into quantitative factors; Combined these factors to form new 2-way & 3-way factors	
• Trained and cross-validated the RF model on a rolling basis; Improved prediction accuracy by 9%	
• Extracted a feasible trading strategy from the RF model and proved its superiority by return rate backtesting	
<b>Deloitte</b>	Shanghai, CN
<b>Data Scientist Intern / Intelligence Group</b>	Dec 2019 - Jan 2020
• Automated content curation of a daily tech newsletter for internal consultants; Saved them over 1 hour's daily reading time	
• Performed web scraping (BeautifulSoup4) and text mining (NLTK) to identify top 10 news topics and corresponding news articles	
• Discussed with internal consultants regularly and served as the liaison between the consultant group and intelligence group	
• Taught 2 new interns Deloitte's rules and regulations; Checked their work progresses daily and solved problems with them	
<b>Essence Securities</b>	Shanghai, CN
<b>Industry Analyst Intern / Equity Group</b>	May 2018 - Jul 2018
• Built financial models using functions in Excel and automatically update financial data using Bloomberg Excel Add-In	
• Analyzed and visualized public industry data using advanced Excel functions( e.g., Pivot Table, VLOOKUP ) and graphs	
• Wrote investment reports for the IC industry with unique insights, garnering views from over 1800 potential clients	
• Collected information from over 30 industry experts and company executives through regular in-person conversations	

## PROJECTS

[Time Series, Clustering]	Small Business Growth Pattern in 2010 Winter Olympics	Citadel & Correlation One
[Django, SQL]	Squirrel Reporting Web App	CU
[Web Scraping]	Movies' Worldwide Box Office Revenue Prediction	CU
[Neural Network, SVM]	Forest Fire Detection Using Satellite Images	SJTU
[Least Square Regression]	Indoor 3-D Positioning of Wireless Communication Base Stations	Huawei

The details of all projects can be accessed here: <https://wenyixu1994.github.io/>