

# JIEYU ZHANG

Data Analyst & BI Specialist

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## EDUCATION

Northeastern University  
**Master of Science in Analytics**  
Harvard Business School  
**Business Analytics Certificate**

May 2022  
**GPA: 3.97/4.00**  
Aug 2021  
**Final Score: 93/100**

## COMPETENCIES & SKILLS

**Specialty:** Visualization | Data analytics | Strategic Planning | Risk Control (Accuracy & Efficiency)  
**Visualization:** Tableau Sever | Power BI Server | Semantic Brand Score | Photoshop  
**Data Analytics:** Statistics Modeling | Microsoft SQL Server | R | Python (Numpy, Pandas) | AWS  
**Industrial Practice:** BrightData (IT) | Bloomberg (Finance) | ebuilder (Construction Management)  
**Certificate:** Tableau Desktop Specialist | AWS Certified Practitioner | CFA Level I  
**Extra-curriculars:** Guitar | Photograph | K-12 Brain-Based Training | Entrepreneurship

## PROFESSIONAL EXPERIENCE

**Project Control Specialist | NEU Facilities Management | Boston, MA** **July 2021 – Present**

- Reimbursed department 8% expense by validating constructive management data on ebuilder platform
- Managed massive data for 15+ campuses with \$100 million scale capital projects in SQL database
- Led & conducted server content migration to improve workflow system, decreasing coordination time by 50% after new reporting server system rolled out in Feb 2022
- Created 10+ R & Python scripts to automate and standardize data clearance, extraction & reporting process
- Enhanced 80% operational efficiency by generating Tableau dashboards, Power BI & ArcGIS spatial analysis
- Designed web collectors using BrightData to scrape BIM standard from 45 countries for decision making

**Financial Strategy Analyst | Standard Chartered Bank | China** **July 2017 – May 2018**

- Generated 140+ business reports & financial analysis on social media platform, resulting in 9,000+ subscribers
- Conducted quantitative analysis of financial data to forecast revenue, identify trends & capital expenditures
- Developed 10+ advertising frameworks, matrix & questionnaires for researching customer satisfaction
- Optimized client payroll system by documenting departmental process to senior management

## PROJECTS

**Diplomacy Lab | Python, NLP, SBS | Massachusetts State Department** **Jan 2022 – Present**

- Self-Taught Python packages (BeautifulSoup) to drag 5000+ Ukraine-related posts & comments from Twitter
- Covered large amounts of data from foreign language to English by deploying Python packages (googletrans)
- Constructed text analysis based on top textual brand associations, unique associations & most frequent words
- Applied sentiment analysis & semantic analysis leveraging SBS (Text BI) to understand mis/disinformation
- Built news detection prototype using decision tree models with accuracy rate ranging from 77% - 92%

**Analysis of AI-Aided Polyp Detection | R, Tableau | Iterative Scope AI** **Sept 2021 – Dec 2021**

- Implemented regression analysis with Tableau to forecast improvement of AI algorithms in 6 months training
- Utilized R packages (glm, party & knn) to select machine learning models of best polyp prediction
- Implemented L1 & L2 regularization, improving accuracy of original model from 73.23% to 89.24%
- Created, implemented, and maintained Tableau dashboard for the company: identifying > 98% data inconsistency & acquiring 85% generally positive feedback from shareholder

**Pharmacy Intervention Pilot | Python, SQL | Brigham & Women's Hospital** **Mar 2021 – May 2021**

- Manipulated Python scripts to extract, transform & load data from hospital software to SQL database
- Designed ERD diagrams with snowflake schema & 2FA to empower authorization & data security