

# JUNJIE WANG

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## Education

**Columbia University, New York, NY** Dec. 2024  
*MS Computer and Information Science - Applied Analytics* GPA 4.15/4

- **Relevant Coursework:** Data Modeling | Distributed Systems | Anomaly Detection | Machine Learning
- **Honor:** Annual Dean's Excellence Awards of Academic Leadership; Executive Member of Columbia Student Organization

**University of Wisconsin - Madison, WI** May 2023  
*BBA Wisconsin School of Business - Accounting* GPA 3.7/4

## Skills

Python	PostgreSQL	Data Visualization	R Language	Exploratory Data Analysis
MongoDB	API Design	Statistical Inference	BI Reporting	Interactive Programming
Metabase	Research Design	Machine Learning	Apache Spark	Predictive Modeling

## Experiences

**Business Analyst Intern at Shanghai Shenchi Industrial Co., Ltd.** May 2023 – Sep. 2023

- Designed a dynamic financial KPI dashboard that helped identify cost-saving opportunities, led to a **15% reduction in operational costs** and a **30% increase in decision-making** efficiency.
- Conducted variance analysis using R language, pinpointed **cost-saving opportunities totaling \$100,000** and formulated strategic recommendations for profitability optimization.
- Applied Python to optimize logistics, analyzed age and mileage characteristics of trucks, informed business decisions, and **boosted truck salvage value by 20%**.
- Presented cost management strategies using Tableau, which resulted in a **25% increase in adoption** of cost-saving measures.

**Data Analyst Intern at Amazon.com, Inc.** June 2022 – Sep. 2022

- Conducted market analysis using **SWOT and Porter's Five Forces** to evaluate Amazon's competitive position, identified potential threats, and delivered strategic recommendations that informed leadership decisions.
- Designed a Tableau storyboard to visualize subscription trends and seasonal patterns, optimized marketing strategies, and **identified 10% more growth opportunities** in targeted demographics.
- Developed predictive models in R, spearheaded data cleaning, feature engineering, and modeling, **enhanced data quality by 30%**, and **improved model accuracy by 20%**.
- Produced actionable business intelligence by analyzing complex datasets, identified popular content genres, and informed investment strategies for original content, led to strategic expansion into untapped markets and an **estimated ROI of 10%**.

## Projects

**Capstone: North America Logistics Optimization(CNH Industrial)** – Project Manager Sep. 2024 – Dec. 2024

- Developed a customized logistics optimization algorithm from scratch using Python, **reduced logistics costs by over \$400,000** through the integration of inland and ocean transport cost optimization.
- Designed a user-friendly API interface with HTML scripts for non-technical employees to interact with the algorithm, **reduced manual input errors to 0%**, and incorporated early warning alerts to further minimize disruptions.
- Enhanced the batch order processing algorithm to **address business challenges**, improved logistics efficiency and customer satisfaction by balancing costs with accurate delivery predictions and backup alternatives, and optimized the algorithm to deliver business recommendations in seconds, **reduced shipment planning time by 80%**.

**Machine Learning Neural Networks Project** – Individual Project May. 2024 – Aug. 2024

- Trained neural networks on the MNIST dataset using PyTorch with advanced techniques like BatchNorm and LSTM, achieving over **98% accuracy and a 30% performance improvement** in digit classification tasks.
- Developed a robust **company name generation model** with nearly **a million parameters**, leveraging N-gram models and Multi-Layer Perceptrons (MLP) to significantly enhance prediction accuracy and reliability.
- **Optimized the architecture and training pipeline** for the name generation model, ensuring high scalability, improved efficiency, and adaptability for complex data patterns.

## Leadership

**Program Representative** at Columbia University Feb. 2024 – Present

- Exemplary student leader; Faculty collaboration; Program improvement; Student feedback integration

**President, Applied Analytics Club** at Columbia University Mar. 2024 – Present

- Led 6 teams of 30 students to organize 20+ events per semester, attracted 1000+ attendees, achieved a 98% satisfaction rate