

# Jade Cheng

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## EDUCATIONS

<b>Duke University</b> <i>Master of Science in Statistical Science</i>	Durham, NC Aug. 2025 – May 2027
<b>Communication University of China</b> <i>Bachelor of Engineering in Data Science</i>	Beijing, China Sep. 2021 – June 2025

• Major GPA: 3.80/4.00 Top 10%  
• Data Structure, SQL, Python, Probability, Machine Learning, Data Visualization

## EXPERIENCE

<b>Software Center of the Industrial and Commercial Bank of China</b> <i>Data Analyst Intern</i>	June 2023 – Aug 2023 Beijing, China
<ul style="list-style-type: none"><li>Analyzed 12 months of customer card activation, transaction, and app binding data for users aged 18-22 using <b>SQL</b>, identifying a 130.97% surge in new activations during the back-to-school season.</li><li>Segmented user binding data to identify significant adoption gaps: 70.47% of target users unbound on JD.com and 56.13% on Meituan, providing data-driven insights to inform partnership and marketing strategies.</li><li>Designed and executed a multi-variant <b>A/B test</b> for a card-binding campaign; used SQL for real-time monitoring of <b>CTR</b> and conversion rates to optimize channel selection and push timing.</li><li><b>Collaborated with cross-functional teams</b> (legal, algorithms, operations) to implement the campaign, resulting in an 18% increase in overall conversion, 25% lift on JD.com, 22% on Meituan, and a 15.6% CTR.</li></ul>	

## PROJECTS

<b>Behavior Analysis and Visualization for China Mobile</b>   <i>SQL, PowerBI</i>	June 2024 – July 2024
<ul style="list-style-type: none"><li>Deliver actionable intelligence: Established and optimized a <b>MySQL</b> database to ensure integrity and efficient querying of large-scale mobile signal data. Integrated user distribution patterns from China Mobile across major tourist attractions during peak holiday seasons.</li><li>Transform data into insights: Leveraged <b>PowerBI</b> to design an interactive <b>DASHBOARD</b> highlighting real-time metrics such as visitor density, attraction clustering, and demographic profiles. Enabled data-driven decision making for optimizing resource allocation and enhancing visitor management strategies.</li></ul>	
<b>Neural News Recommendation System with LLM Explanation</b>   <i>Prompt, ML</i>	Dec 2024 – May 2025
<ul style="list-style-type: none"><li>Processed and cleaned the MIND dataset using <b>Pandas</b> and <b>NumPy</b>, handling missing values, normalizing features, and tokenizing text to create a dataset for model training and evaluation.</li><li>Conducted comparative experiments on <b>DEEP LEARNING</b> models (DKN, NRMS, NAML), performing parameter tuning and evaluation to identify NAML as the optimal algorithm.</li><li>Integrated the <b>DeepSeek API</b> and engineered <b>PROMPTS</b> to generate natural-language explanations for news recommendations, including news summaries, relevance to user history, and potential interest areas.</li></ul>	

## TECHNICAL SKILLS

**Programming Languages:** Python, SQL, C/C++, R  
**Analysis & Statistical Techniques:** Statistical Modeling, Machine Learning, A/B Testing  
**Data Tools:** Tableau, Power BI, Excel  
**Libraries:** Pandas, NumPy, Matplotlib  
**Additional:** Teamwork, Communication, Time-management