



Lai Jie

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AI Development Engineer | AI Application Engineer



EDUCATION

M.S. in Artificial Intelligence | University of Electronic Science and Technology of China (UESTC)

National Key Laboratory of Science and Technology on Communications | Sep 2022 – Jun 2025

- GPA: 3.51/4.0 | Coursework: Mathematical Modeling, Signal Detection and Estimation
- Honors: Graduate Academic Third-Class Scholarship (2 times)

B.S. in Electronic Information Engineering | Northeastern University (China)

School of Computer Science and Communication Engineering | Sep 2016 – Jun 2020

- GPA: 3.59/5.0 | Coursework: Signals and Systems, Communication Principles, Computer Networks
- Honors: National Encouragement Scholarship (3 times), Outstanding League Member



PROJECT EXPERIENCE

E-commerce Knowledge Graph & Intelligent Recommendation

- Designed graph schema for products, brands, and categories; implemented data organization using Neo4j to support relationship queries and semantic retrieval
- Integrated graph queries with LLM responses, using structured relationships to enhance context for product filtering and recommendation tasks
- Proficient in entity extraction, relation extraction, data cleaning, Cypher queries, and graph visualization
- Implemented graph-based recommendation algorithm, improving recommendation accuracy by 25%

Intelligent Product Publishing & Copywriting Assistant

- Designed automated pipeline for generating product titles, selling points, detail page copy, and tags using prompt templates to standardize output structure
- Utilized Pandas/MySQL for data cleaning and batch processing; implemented category rules, prohibited word checking, and output validation logic
- Leveraged Agent tool calling for material extraction, field completion, and content generation to improve operational efficiency



TECHNICAL SKILLS

- **Programming & Data:** Python, Data Structures & Algorithms, NumPy, Pandas, Scripting
- **Machine Learning:** Classification, Regression, Neural Networks, Transformer, Model Training
- **LLM & AI Applications:** Prompt Engineering, RAG, Agent, LangChain, Dify/Coze, Fine-tuning
- **Tools & Platforms:** Linux, Shell, MySQL, Neo4j, Knowledge Graphs



SUMMARY

Master's degree in Communication Engineering with strong foundation in mathematics, engineering, and system design. Systematically trained in Python, Machine Learning, Deep Learning, NLP, and LLM application development. Passionate about AI application deployment, capable of decomposing business scenarios into data, model, retrieval, toolchain, and evaluation components. Quick learner with practical project experience, committed to staying current with AI advancements and delivering results in real business environments.