

Honggang Yan

Dual Master's Degrees | Data Driven Professional

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Education

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| Frankfurt School of Finance&Management MSc in Applied Data Science | Sept. 2022 – August 2024 |
| • GPA: 1.6, Thesis: 1.0 Focus: Data Management, Database, Statistics, Machine Learning, and Artificial Intelligence | |
| Shanghai University MSc in Civil Engineering | Sept. 2015 – April 2018 |
| • GPA: 87.45/100 Published Paper: Breakthrough Test on Preferential Flow in Municipal Solid Waste (indexed by EI) | |
| Yancheng Institute of Technology BSc in Civil Engineering | Sept. 2011 – May 2015 |
| • GPA: 3.21/4 Outstanding Graduate Award | |

Professional Experience

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| Lufthansa Group Advanced Analytics and AI Team | Frankfurt am Main |
| Data Science Intern | Dec. 2023 - Jun. 2024 |
| <ul style="list-style-type: none">• Developed a Retrieval-Augmented Generation (RAG) application to improve customer Q&A experience• Designed the solution architecture for RAG on Azure integrating LLMs, embedding models and vector databases• Established a framework to evaluate RAG performance using "LLM as a Judge" and "Human in the Loop"• Completed the POC of an Audio Classification App using LLMs to reduce manual effort• Researched methodologies for prompt engineering, BM25 and vector search• Practical experience in Git version control, CI/CD and Docker• Worked in an Agile Team, following the SCRUM Framework | |
| Lufthansa Group Data Delivery Team | Frankfurt am Main |
| Data Reporting Intern | Jul. 2023 - Dec. 2023 |
| <ul style="list-style-type: none">• Deployed a budget management report (Power BI) for 20+ colleagues, improving vendor and budget management• Developed a project management report (Tableau) and ETL pipeline to monitor tasks on Jira using Azure Data Factory and Databricks notebook, improving the transparency of project management for the team• Curated 50+ airline customer data table schemas in Azure Purview, enhancing data quality and governance• Tested and validated weekly Samba delta data loads to ensure timely and accurate data warehouse updates• Developed and facilitated an onboarding process, ensuring a seamless experience for new team members | |
| China Jinmao (0817.HK) | Ningbo, China |
| Senior Investment Analyst - Real Estate | Mar. 2020 - Apr. 2022 |
| <ul style="list-style-type: none">• Closed two residential acquisitions, contributing €1.39 billion in consolidated revenue.• Promoted to Senior and awarded a 6-month salary bonus for achieving "A" performance in 2021• Completed 8 investment reports for residential assets, presented to stakeholders, and participated in land bidding events• Developed investment strategies, performed cash flow modeling and asset valuation, led investment decision meetings, negotiated terms, and closed acquisition transactions• Led cross-functional teams (marketing, design, cost, finance, operations, engineering and legal) to complete each investment report within one month, demonstrating project management and leadership skills | |
| Zhongliang Holdings Group | Hangzhou, China |
| Investment Analyst - Real Estate | May. 2018 - Mar. 2020 |
| <ul style="list-style-type: none">• Completed 12 feasibility reports on potential investments in the secondary land market• Developed and implemented SOPs for the investment department and subsidiary teams | |

Technologies

Programming: Python, HTML, CSS, JavaScript, Flask, Django

Data Management: MS Excel, Numpy, Pandas, SQL, Relational Databases

BI Reporting Tools: Power BI, Tableau

Project Management: Jira, Miro, Sharepoint, MS Office Suite

DevOps: Azure DevOps, VScode, Git, CI/CD (GitHub Actions), Docker

Cloud: Azure AI/ML Studio, Azure AI Search, OpenAI services, Azure Data Factory

Projects

Personal Project | Energy Trading with Monte Carlo Simulations Oct. 2024

- Simulated electricity procurement for utility companies, focusing on dynamic stop-loss strategy in different price trends
- Generated price paths using geometric Brownian motion to model various market trends (rising, falling, no trend)
- Conducted Monte Carlo simulations to evaluate strategy performance under different market trends

Nagarro | Airline Customer Review Analysis Oct. 2023 - Jan. 2024

- Delivered a customer review analysis project with 20,000+ data entries from five European airlines
- Developed a sentiment analysis and topic modeling framework with sentence embeddings, clustering, TF-IDF, and LLaMA2
- Created an interactive Tableau dashboard to visualize key insights from the customer feedback analysis

Emma - The sleep company | LLM-Based E-mail Campaign Analysis Aug. 2023 - Sept. 2023

- Completed a project leveraging NLP to analyze campaign emails and conversion rates
- Applied embedding techniques and similarity scoring to quantify abstract business challenges
- Conducted feature engineering and OLS regression to uncover key relationships between KPIs and email content

Extracurricular Activities

Languages: English: C-level, German: A2 (B1 expected by Feb. 2025), Chinese: Native

Volunteer Work: 2024 European Cup, 2023 Lufthansa Culture Event, 2017 Shanghai Jazz Music Festival

Sports: Half-marathon finisher, Regular swimmer, and Cyclist