

Honggang Yan

Dual Master's Degrees | Data Driven Professional
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Education

- 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

- Lufthansa Group | Advanced Analytics and AI Team** **Frankfurt am Main**
Data Science Intern Dec. 2023 - Jun. 2024
- 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 Engineering Intern Jul. 2023 - Dec. 2023
- 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
- Closed two residential acquisitions, contributing €1.39 billion in consolidated revenue.
 - 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
 - Achieved "A" performance in 2021 and was promoted to Senior
- Zhongliang Holdings Group** **Hangzhou, China**
Investment Analyst - Real Estate May. 2018 - Mar. 2020
- 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