Ziyang He

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Professional Summary

I am a data scientist and machine learning specialist with 1 year of experience developing innovative AI solutions for complex problems. My expertise lies in natural language processing and machine learning, with a proven track record of translating research into production-ready systems. I am passionate about leveraging AI to create meaningful impact and committed to staying at the forefront of technological advancements in the field.

Education

2022 - 2024 | **National University of Singapore**, Singapore
M.S. in Computer Science

2018 - 2022 | **Sun Yat-sen University**, Guangzhou, China
B.S. in Statistics

Professional Experience

08/2024 - Present | **Grand Alliance Asset Management Limited**
Data Scientist
Designed and automated ESG data pipelines and database updates, developed machine learning models for carbon emission reports, and collaborated on data validation and alert systems. Enhanced portfolio analytics by automating MSCI Barra API workflows, building internal visualization tools, and optimizing data processing, achieving up to 5x faster data access and 2x faster report generation.

Publications

1. Aishwarya Jayagopal, Hansheng Xue, **Ziyang He**, Robert J. Walsh, Krishna Kumar Hariprasannan, David Shao Peng Tan, Tuan Zea Tan, Jason J. Pitt, Anand D. Jeyasekharan, and Vaibhav Rajan. 2024. Personalised Drug Identifier for Cancer Treatment with Transformers using Auxiliary Information. In **Proceedings of the 30th ACM SIGKDD Conference on Knowledge Discovery and Data Mining** (KDD '24). Association for Computing Machinery, New York, NY, USA, 5138–5149. https://doi.org/10.1145/3637528.3671652

Teaching Experience

2023 - 2024 | **Advanced Analytics and Machine Learning**, National University of Singapore
Professor: Prof. Vaibhav Rajan
Teaching assistant for graduate-level course. Led weekly tutorial seminars, evaluated homework assignments, and held office hours for a class of 120 students.

Honors & Awards

2019 - 2021 | **School Scholarship**, Sun Yat-sen University
Awarded for top academic performance in undergraduate study.