JINGLIN GAO

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EDUCATION

Uppsala University *Uppsala, Sweden*
Master of Computational Science *Sep.2022 - Mar.2025*
Master Thesis: Self-supervised representation learning for Micro-CT images
https://www.diva-portal.org/smash/record.jsf?pid=diva2:1909757

Dalian University of Technology *Dalian, China*
Bachelor of Civil Engineering *Sept.2017 - Jun.2021*
Key Achievements: Third Prize in Social Activities (Jun. 2018); Third Prize in Advanced Mathematics Competition (2017); etc.

WORK EXPERIENCE

Recap Power AB *Apr.2024 - Now*
Position: Full-Stack Developer *Uppsala, Sweden*

- Developed and deployed a full-stack revenue tracking feature for energy bidding markets using Python and TypeScript/React, enabling over 70 active sites to monitor and analyze earnings across markets and timeframes—boosting customer insight and engagement by 40%.
- Implemented an automated testing pipeline with Python and GitHub Actions, creating over 30 test cases and CI workflows that reduced production bugs by 80% and accelerated development cycles by 25%.
- Built and integrated a regression machine learning model to forecast day-ahead market prices, improving bidding accuracy and helping increase projected bidding revenue by 15–20% through data-driven decision-making.

Uppsala University *Aug.2023 - Nov.2023*
Position: Teaching Assistant *Uppsala, Sweden*

- Assisted in teaching Computer Programming II to 60+ students, focusing on Python development and algorithmic problem-solving.
- Assisted with debugging and optimizing Python code using VS Code and Git, and provided guidance on recursion, complexity analysis, and test-driven development.
- Graded assignments and provided feedback on code structure, logic, and best practices in software engineering.

PROJECT EXPERIENCE

Scalable Backend for Large-Scale Data Processing *2023 - 2023*

- Designed and built a horizontally scalable backend system using containerization technologies (e.g., Docker).
- Demonstrated performance improvements through computational experiments, highlighting backend scalability and reliability.

Neural Compression of 3D Micro-CT Data Using INRs and CNNs *2023 - 2023*

- High reconstruction fidelity from compressed INR representations.
- Successful interface with CNN architectures for downstream use.
- Compressed raw volume data by 3× with minimal loss, significantly reducing storage needs.
- Maintains structural and spatial features necessary for medical interpretation.

Machine Learning Pipeline for Gender Classification in Film Data *2023 - 2023*

- Applied various ML models to classify data (e.g., actor gender in films), performed feature analysis, model evaluation, and prediction using real-world datasets.

SKILLS & HOBBIES

Language: Chinese(native), English(fluent), Japanese(advanced)
Programming Language: Python, Typescript, SQL, bash, C
Selected Courses: Database Design, Data Engineering, Computer Architecture, High Performance Programming, Parallel and Distributed Programming, Statistical Machine Learning, etc.
Tools & Frameworks: React, Docker, Git, AWS, MQTT, REST API
Interests: Photography, Badminton, Baking