DAVIDE LIU

DATA SCIENTIST & ML ENGINEER

CONTACT

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🌐 Personal website

🌐 Github

🌐 Google scholar

🌐 LinkedIn

SKILLS

- Machine Learning
- NLP
- LLM
- Stable Diffusion
- Prompt Engineering
- Process Automation
- Recommender Systems
- Reinforcement Learning
- Models deployment
- Cloud-based Services (AWS, Azure)
- Data Analysis
- Feature Engineering
- Data Visualization
- Team Leadership
- Python
- SQL
- Time management
- Communication

EDUCATION

Master degree
Tsinghua University
Sep 2019 - June 2021 - Beijing, China
Computer Science

Bachelor degree
Padova University
Sep 2016 - July 2019 - Padova, Italy
Computer Science

LANGUAGES

Italian   English   Chinese

SUMMARY

With over 6 years of professional experience in data science and ML research, I have a proven track record in leading diverse teams and innovating solutions to complex business challenges. My experience spans implementing scalable high-performance systems, developing and training complex AI agents, and enhancing user experience, making me a valuable asset for data-driven organizations.

PROFESSIONAL EXPERIENCE

AI researcher

X-Tech - China   May 2024 -

- Inference and fine-tuning of large foundational models for time series forecasting, focusing on predicting future values of financial assets using historical data. Leveraging model predictions to generate asset allocation strategies and optimize portfolio decision-making processes.
- Developed and fine-tuned AI agents to generate financial reports, predict future values of financial indicators, and provide actionable insights by integrating historical data, market news and reports, combined with RAG, and advanced prompt engineering.

AI researcher

SenseTime - China   Jun 2021- Apr 2024

- Main developer of DI-engine, a distributed and scalable decision intelligence engine supporting 40+ deep reinforcement learning algorithms and 60+ environments. GitHub stars increased from 300+ to 2000+ during my tenure.
- Developed an AI agent to automatically generate short videos from text prompts. The agent boasts capabilities in text and voice generation, music and video creation, and automatic captioning. Generated over 80 videos with up to 8k views each on Chinese social media platforms.
- Fine-tuned open LLama model to create a chatbot on financial data, achieving an accuracy of 93% on a Q&A benchmark through rigorous testing and language modeling evaluation.

Senior Data Scientist

Genify - China/UAE   Oct 2019 - Jun 2021

- Led 3 research teams comprised of 3+ members from diverse backgrounds and time zones, successfully driving the development of cutting-edge research projects on data mining, recommender systems, and NER. Published 7 papers at top international conferences.
- Designed and implemented a transformer-based banking products recommendation system that outperforms state-of-the-art baselines, achieving top-1 and top-5 precision of 98.9% and 40.2%, respectively, on a financial dataset provided by Bank Santander.
- Utilized machine learning and big data technologies to cluster financial transactions and user behavior, deriving valuable business insights. The tool is currently used by the company.