DAVIDE LIU

DATA SCIENTIST & ML ENGINEER

CONTACT

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Personal website

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Google scholar

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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 engineer

Mindsflow - China/US   Apr 2023 - Apr 2024

- 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 social media platforms.
- Finetuned and deployed a wide range of LLMs. Optimized their inference speed. Increased their task-focused reasoning abilities with extensive research on RAG and prompt engineering.
- Core developer of Mindsflow. A platform to create and share intelligent agents to automate tasks. Implemented API services based on AIGC and deployed on AWS. Served over 1000 users and 5 customers through the platform.

AI researcher

SenseTime - China   Jun 2021- Apr 2023

- 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.
- Combined features engineering and machine learning to optimize trading policies, applying these strategies to predict market trends. Best results yielded returns exceeding 100% compared to the CSI500 index benchmark from 2019 to 2022.
- Fine-tuned different open-source language models 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 6 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.