

JIN-ZHOU LI

Machine Learning Engineer / Data Scientist



ABOUT

Currently studying for a master's degree in applied mathematics at Dong-hua University, specializing in **machine learning**, **data science** and **statistical theory**, and is expected to graduate in 2025 summer. My favorite area within machine learning is supervised learning, good at building predictive models, exploring hidden patterns and correlations in data, and combining my mathematical background to provide efficient and accurate solutions. In the future, I hope to apply what I have learned to cross-field research and practical projects to create value for enterprises.

WORK EXPERIENCE

Teaching

National Dong Hwa University

📅 2020 Studying 📍 Hualien

- Teaching assistant for calculus, statistics, probability theory, programming, etc., hosted teaching.
- Research assistant, participated in theoretical derivation and wrote technical articles.
- Computer software and hardware maintenance personnel, repairing, replacing and updating complex mathematical software.

EDUCATION

Master of Statistics

National Dong Hwa University

📅 Sep 2023 – Studying 📍 Hualien

- Mainly focuses on machine learning and statistical theory.
- Finalist in IMBD National Big Data Analytics Competition.
- Equipment general call for the 32nd Southern District Statistics Seminar.
- Teaching assistant for many courses such as calculus, statistics, probability theory, programming, etc.

Bachelor of Applied Mathematics

National Dong Hwa University

📅 Sep 2019 – Jun 2023 📍 Hualien

- Majored in statistics and was exposed to the fields of pure mathematics and information
- Minored in information engineering.
- AI & Data Science Workshop equipment general call.
- Teaching assistant for many courses such as calculus, statistics, probability theory, etc.

INFORMATION

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PERSONALITY

- 🧠 **Logical**
Accurate, stable and fluent logical thinking
- 👁️ **Observant**
Observe the tiny or macro features of things and discover subtle connections between things
- + **Passion for math and computer science**
Worked in mathematics, got in touch with computer science, and taught myself programming languages

SKILL

- 📊 **Data Science**
 - Machine Learning
 - Data Visulation
 - Recommendation System
 - Text Mining
- √ **Math**
 - Probability Theory
 - Statistical Theory
 - Calculus
 - Algorithms
- 🔗 **Programming**
 - R
 - Python
 - Web Crawler
 - LaTeX

REFERENCE

Professor Wei-Ying Wu, Chairperson of the Department

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AUTOBIOGRAPHY

Introduction

Hello, World! My name is Jin-Zhou Li, and I am currently studying a Master's degree in Applied Mathematics with a focus on Statistics at National Dong Hwa University, expected to graduate in June 2025. During my undergraduate years, I majored in Applied Mathematics and minored in Computer Science. I am passionate about mathematics, programming, and data science, with a particular interest in exploring machine learning and statistical theories. I am dedicated to applying these fields to solve real-world problems.

As an INTJ personality type (The Scientist), I excel in planning and executing goals while maintaining a strong curiosity about unknown domains. On my academic journey, I constantly seek interdisciplinary knowledge, striving to connect mathematics, data science, and programming. This not only deepens my understanding of these fields but also broadens my perspective. I am convinced that these areas are interconnected, and building bridges between them is the lifelong mission I aim to pursue.

Professional Skills

I specialize in supervised learning within machine learning and am deeply interested in constructing predictive models. These models serve as universal solutions that can be applied across various scenarios—from forecasting human behavior to predicting economic trends. By uncovering hidden relationships within data and building models to predict new events, I leverage my mathematical background to create efficient and accurate solutions.

Beyond mathematics, I also maintained computer hardware and software for my department, customized personal websites, and installed RStudio Server on Ubuntu Server. These experiences have honed my skills in independent thinking and problem-solving in both programming and IT domains.

Passion for Learning

I created a personal website to compile my book reviews and academic notes. This website serves as my *second brain* and also helps others grow alongside me. Through this project, I experienced how resources attract more resources, and I came to realize that passion is the driving force behind progress. It motivates me to continually improve and grow. This website is not only a showcase of my learning achievements but also a tangible expression of my commitment to the pursuit and sharing of knowledge.

Future Outlook

Facing academic and practical challenges, I believe that continuous learning and practice are key to self-improvement. In the future, I aspire to integrate my expertise in mathematics, data science, and machine learning to provide innovative solutions for businesses and create value through real-world applications.

Showcase Portfolio

I have listed the 7 most important or challenging portfolios, which include machine learning, data science, mathematics, programming, and algorithm skills, showcasing my expertise and solid foundation in these areas. Not only can I apply various programming languages to solve problems, but I am also able to leverage data to create value.

1. Warehouse Optimization Model
2. Customer Personality Modeling and Evaluation
3. Spam Email Machine Learning Classifier
4. Netflix Data Visualization
5. Number Theory and Python Implementation
6. Sudoku Solver
7. Mahjong Club Management System

