

JINHE ZHANG

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EDUCATION

Jilin University

BE, Software Engineering; GPA: 91.47/100, Ranking: 2/345

Jilin, China

Sep. 2019 – July. 2023

RESEARCH INTERESTS

Machine Learning, Data Mining, Bioinformatics, Health Informatics

EXPERIENCE

Health Informatics Lab

Research Assistant, Mentor: Prof. Fengfeng Zhou

Jilin University

Apr. 2020 – Present

- * **Obtained programming experience in Python & R primarily regarding scikit-learn.**
- * **Feature Selection Algorithm:** Designed a feature selection algorithm suitable for Methylome Biomarkers binary classification problem.
- * **Technical Report:** Implemented the selection algorithm in a python package and performed methylation biomarker prediction.
- * **Estimation:** Estimated Immune cell fractions from Bulk RNA Sequencing data using Deconvolution Algorithm.

Machine Learning Lab

Research Assistant, Mentor: Prof. Lü Shuai

Jilin University

Oct. 2020 – Present

- * **Mainly Focus on Deep Reinforcement Learning, Sparse Reward Problems.**
- * **Working on a Paper about Off-Policy Maximum Entropy Deep Reinforcement, Soft Q-learning and Soft Actor Critic.**

SELECTED PROJECTS

A Bot for Go Game (Game Theory & Heuristic Algorithm): Designed a bot program with extremely high win ratio in Go game using Monte Carlo tree search(MCTS).

Smart Snake (Search Algorithm): Designed a bot using alpha-beta pruning & memory-enhanced test driver.

A Shopping Website (bootstrap): Designed and implemented a shopping website.

A Pipeline: Participated in building a pipeline for the lab.

Awards & Honors

- National Scholarship, Ministry of Education of China
- First Class Scholarship, Jilin University
- Outstanding Undergraduate, Jilin University
- Meritorious Winner, Mathematical Contest In Modeling, MAA

SKILLS

Languages: C++, C, Java, JS, Python, R, CSS

Operating System: Linux, UNIX

Database System: Oracle, DB2

Platforms: TensorFlow, Gym, OpenAI*

Packages: Pytorch, NumPy, Pandas, Scikit-learn

SELECTED COURSE

Data Structure 95/100 Algorithm Analysis 94/100 Principles of Operating System 89/100

Linear Algebra 98/100 Discrete Mathematics 92/100 Calculus III 94/100 Probability and Statistics 93/100