JINHE ZHANG

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EDUCATION

Jilin University   Jilin, China
BE, Software Engineering; GPA: 91.47/100, Ranking: 2/345   *Sep. 2019 – July 2023*

RESEARCH INTERESTS

Machine Learning, Data Mining, Bioinformatics, Health Informatics

EXPERIENCE

Health Informatics Lab   Jilin University
Research Assistant, Mentor: Prof. Fengfeng Zhou (IEEE Senior Member)   *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   Jilin University
Research Assistant, Mentor: Prof. Lü Shuai   *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.

Awards & Honors

* First Class Scholarship, Jilin University
* Outstanding Undergraduate, Jilin University
* Meritorious Winner, Mathematical Contest In Modeling, MAA

SELECTED SKILLS

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

Operating System: Linux, UNIX

Database System: Oracle, DB2

Platforms: TensorFlow, Gym, OpenAI*

Packages: Pytorch, NumPy, Pandas