Yixin Liu

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EDUCATION

- **South China University of Technology**   Guangdong, China
  BEng. - Software Engineering; GPA: 3.82/4.00; Ranking: Top4%;   *Sep 2018 - July 2022*
  Courses: *Principles of Compiler (98), Probability And Statistics (100), Calculus (97), Linear Algebra (94), Operating System (90), Artificial Intelligence (93), Algorithm Design and Analysis (91), Data Mining (91), Software design(91)*

PROJECTS

- **Pests in the Nest, Under Arrest: A Hornet Sighting Report Evaluation System**: I lead the team to design a hornet sighting report system based on ML method and the paper achieve *Finalist* in 2021 MCM. [PAPER, PROOF](Apr '21)

- **Bert-based Legal Judgment Document Amount Entity Extraction Model**: Design a system based on BERT to conduct amount entity extraction.[COPYRIGHT, DEMO] (Nov '20)

- **Covid-19 Prediction Model based on Huber Regression and Hierarchical Feature**: Design hierarchical classification feature coding scheme and design algorithm based on Huber Regression. We achieve championship in this race. [TALK, RESULT](Oct '20)

PUBLICATIONS

- **Conditional Automated Channel Pruning for Deep Neural Networks**: IEEE SPL. June 2021.

- **Priority Prediction of Sighting Report Using Machine Learning Methods**: IEEE SEAI. April 2021.

HONORS AND AWARDS

- Outstanding Undergraduate Thesis - June, 2022 [**12/271≈4%**]

- National Scholarship ×2 - 2021/2022 [**1/71≈1.4%**]

- *Finalist* at 2021 American Mathematical Contest in Modeling - April, 2021 [**284/10061≈2.82%**]

- *Provincial First Prize* at Contemporary Undergraduate Mathematical Contest in Modeling - Oct, 2020

- *Provincial Second Prize* at National Mathematics Competition for College Students - Oct, 2020

- *Champion* at the 6th China Health Information Processing Conference (Evaluation 4) - Nov, 2020.

- *Runner-up* at National Undergraduate Software Practice and Innovation Ability Competition - Nov, 2020.

- SCUT Premium Scholarship - Sep, 2019.

SKILLS/QUALIFICATION

- **English**:   CET-4(598) / CET-6(537) / TOEFL(83)
- **Languages**:   Python, C++, HTML, JS
- **Frameworks**:   Pytorch, Tensorflow, Flask, Keras, PARL, Huggingface
- **Tools**:   Docker, GIT, MySQL

EXPERIENCE

- **Contributing to Open Source RL Project: PARL**   Remote
  Contributor (Part-time)   *Mar 2022 - Apr 2022*
  - **Upgrading the MADDPG module**: Adopting MADDPG algorithm to its discrete version.
  - **Bug fixing of policy distribution module**: Fixing the log computation error of Diagonal Gaussian policy
- **Tsinghua University(SZ): Ascend-ModelZoo**   Remote
  Research Intern (Part-time) Advised by Prof. Chun Yuan.   *June 2021 - Aug 2021*
  - **Code reproduce**: Implement Circle Loss using TensorFlow and contribute to ascend modelzoo.

ACADEMIC SERVICES

- KDD/ECCV/IJCAI (Sub)Reviewer, 2022