Jianbai Ye

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EDUCATION

- **University of Science and Technology of China(USTC)** — Hefei, China
  B.S Department of Automation(expected in Jul 2021) — *Sep. 2017 – Present*
    - **GPA**: 3.86 / 4.0 in WES standard, rank 7/100
    - **Selected Courses**: Pattern Recognition(97/100), Electromagnetism A(95/100)
      Complex function(95/100), Probability and Statistics(95/100), Signal and System(95/100)
      Machine Learning(95/100).

SELECTED RESEARCH EXPERIENCES

- **EdgeGCN: Not Every Edge is Trustworthy** — UIUC
  Advisor: Prof.Kevin CC. Chang, forward data lab — *Jun 2020- Jan 2021*
    - Rethinking the Graph Neural Networds from the aspect of semi-supervised learning(SSL) methods
    - Developed code based on PyTorch[1]

- **KD for Rec: Knowledge Distillation for Recommendation** — USTC
  Advisor: Prof.Xiangnan He, Lab for Data Science — *Jul 2020-Jan 2021*
    - Make big embedding models for recommendation system become small and good enough.
    - Developed codebase for multi baselines,based on PyTorch[2].

- **Simplifying and Powering Graph Convolution Network for Recommendation** — USTC
  Research Assistant, Advisor: Prof.Xiangnan He, Lab for Data Science — *Jun 2019-Oct 2019*
    - Aim to simplify the design of GCN to make it more concise and appropriate for recommendation.
    - Developing PyTorch version of the model[3]
    - The paper is being accepted by *SIGIR2020*[4].

SELECTED PROJECTS

- **TorchTrace** — *Github repo*
  Autograd library
    - Implemented most of the operations we need to build a neural network, with autograd supported
    - The PyTorch-like API's fashion, we can easily migrate a PyTorch code into a torchtrace code
    - Implemented a reinforcement learning algorithm DQN[5] in TorchTrace

- **PRank** — *Github repo*
  Binary Relationship extractor for text mining
    - A library for text mining, especially designed for binary relationship.
    - Strong scalability, Pure Python

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[1] https://github.com/gusye1234/EdgeNN
[2] https://github.com/gusye1234/KD_on_Ranking
[3] https://github.com/gusye1234/pytorch-light-gcn
[4] http://staff.ustc.edu.cn/ hexn/papers/sigir20-LightGCN.pdf
[5] https://github.com/gusye1234/2020-ML-project

Work Experience

- **MengXi Investment Company** — Shanghai, China
  Online Intern — *Jun 2018-Sep 2018*
  - Developed grammar analysis engine of the system in python alone to let users can use a simpler grammar to build their own quantitative standards to pick a stock.
  - Got the chance to have full internship of the company in ShangHai(9 in 150).

- **Muti-agent system Lab USTC** — Hefei, China
  Research Assistant — *Aug 2018-Dec 2019*
  - Main developer of the automated system for packing box in delivery industry, consisted of online packing algorithms, multi-joints arms planning, 6D pose and scale estimation, image processing.
  - Integrated machine learning algorithms into packing system to estimate boxes' 6D pose and scale estimation for grasping.

Leadership and Awards

- **Mathematical Contest In Modeling** — USA
  Meritorious Winner — *Mar. 2020*
  - Play the role of coding and mathematical modeling

- **Robotics and AI Summer School of Imperial College London** — London, US
  Group Leader — *Jul 2019-Aug 2019*
  - Coordinated with group members from different cultures to complete a demo[6] in 3 weeks.

Skills

- **Languages**: Mandarine(Native), English(Toefl 103, GRE 328+3.5)

- **Programming Languages**: Python, Java, go, Julia, C/C++, MATLAB, LATEX

- **Library**: Pytorch, Tensorflow, OpenCV, Bullet, Sklearn, Numpy . . .

- **Platform**: ROS, Arduino

Link

- **Github**

- **Personal Website**

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[6]https://github.com/gusye1234/LachFore