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Pinyi Lyu

Startupper

GitHub: Royc30ne
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An engineering student with a strong background in Computer Science, particularly interested in machine learning.

Dedicated and passionate about my subject, I have been skilled with C, Python, and Java. I am a person who is crazy about technology. If there is anything that stirs my interest, I will work hard to ensure the best. Also, I have excellent self-study skills. While my teacher was teaching C, I also taught myself Python and looked for resources to learn algorithms. I am also very interested in investment, and I started to invest in the secondary market in my senior year. Now, my annualized rate of return has reached 20%. In addition to my studies, I put what I have learned into practice. I use the computer knowledge I have learnt to provide VPN (Virtue Private Network) for people.

SKILLS

Programming Language	C, HTML, Javascript, Python, Java, Haskell
- Machine Learning	Keras, TensorFlow, Tensorflow-Federated, PyTorch
- Web Development	Flask, Bootstrap, CSS, Node.js, Vue.js
Other Skills & Certificates	Microsoft E5 Developer, Advanced Google Analytics

EXPERIENCE

Univeristy of California, Irvine Summer Seminer	06/2022 — 10/2022
<i>Supervisor: Associate Prof. Zhiying Wang at Univeristy of California, Irvine</i>	<i>Univeristy of California, Irvine, US</i>

- **Research Topic:** Optimization of Federated Learning Aggregation Algorithms
- Gain experience for the research of Federated Learning.
- Learned how to start an individual research project.
- Build a new Federated Learning Aggregation Algorithm which has a better performance than the existing algorithms under Byzantitne Attack.

Benchmarking Deep Learning Text Classification NLP Models	06/2022 — 10/2022
<i>Supervisor: Associate Prof. Stuart Middleton at University of Southampton</i>	<i>Univeristy of Southampton, UK</i>

- Working with a team of researchers to build a new Deep Learning classification model for the SafeSpaceNLP domain.
- Gain more experience in the field of Natural Language Processing and Deep Learning.
- Annotated a reddit dataset for the SafeSpaceNLP domain.

Member of the Paper Writing Group Targeting ACM Survey (CSUR)	02/2022 — 10/2023
<i>Supervisor: Associate Prof. Stuart Middleton at University of Southampton</i>	<i>Univeristy of Southampton, UK</i>

- Gained experience of writing a systematic review paper
- Establish the basic knowledge framework of Natural Language Processing in Hate Speech Detecting Area
- Learned how to cooperate with each other in a research group

Deep Learning Online Training Project	11/2021 - 01/2022
<i>Supervisor: Associate Prof. Mark Vogelsberger at MIT</i>	<i>Online Module</i>

- Learned deep learning algorithms such as CNN, RNN, and GAN
- Collaborated with the team to develop a model for diagnosing and identifying lesions in lung cancer by processing the lung cancer image using the signal spectrum analysis first, and then combining it with the CNN algorithm to improve accuracy
- Established different CNN models in TensorFlow and adjusted parameters to improve diagnostic accuracy
- Completed the Algorithms and Techniques, Model Evaluation and Validation, and Justification parts of the written report

President/Legal Representative	08/2021 -- 10/2023
<i>Shanghai Ruoting Trading Co., LTD</i>	<i>Shanghai, China</i>

- Acting as a commercial agent to resell domestic high-quality electronic products overseas, and as a product procurement channel for large domestic companies (cross-border e-commerce)
- Having established channel agent partnerships with three local brands

President/Legal Representative	10/2023 -- Present
<i>LandVertex (Shanghai) Co., LTD</i>	<i>Shanghai, China</i>

- Providing SOTA AI solutions for the real estate industry
- Practice the concept of "AI + Real Estate" and "AI + Property Management"

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EDUCATION

BSc Computer Science, University of Southampton 09/2020 - 06/2023

Degree: Second Class Honours (Upper Division)

Modules: Algorithmics; Programming I & II; Computer Systems I; Foundations of Comp Sci; Software Modelling & Design; etc.

Summer Seminar, University of California, Irvine

06/2022 - 10/2022

GPA: 4/4

Modules: Individual Project

BSc Computer Science, Changzhou University

09/2019 - 06/2020

GPA: 4/5

Modules: Fundamentals of Computers & Programing Design; Introduce to Computer Science and Technology; C Language Course Design; Linear Algebra; Advanced Mathematics; Physics Laboratory Practice Excellent

PUBLICATIONS

ConversationMoC: Encoding Conversational Dynamics using Multiplex Network for Identifying Moment of Change in Mood and Mental Health Classification

Authors: Loitongbam Gyanendro Singh, Stuart E. Middleton, Tayyaba Azim, Elena Nichele, Pinyi Lyu, Santiago De Ossorno Garcia

Publication: AAAI 2024 Workshop Machine Learning for Cognitive and Mental Health (ML4CMH)

AWARDS

2022 ECS UG Research Scholarship

School of Engineering and Computer Science, University of Southampton

Supervisor: Associate Prof. Stuart Middleton at University of Southampton

Research Group: Benchmarking deep learning text classification NLP models for behaviour classification of online forum discussions

ACTIVITIES

Hi-Fi

I'm very interested in hi-fi systems, including headphones, speakers, DAC, and AMP. I also taught myself electroacoustics in my spare time by reading relevant books.

Photograph

I often go out to look for scenery to take photos and participate in various photoexhibitions to learn from others' experiences. I think it can improve my aestheticquality and exercise my patience

DJ

As i am a music lover, i also like to make music set in my spare time.