Wenbo Zhang

PHD STUDENT · INFORMATICS

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□+1814-852-9399 | wenbozhangis@gmail.com | ♣ https://wenbozhangis.github.io/

Aug. 2021 - Present Varior: Dr. Amulya Yadav University of Southern California (USC) AAdvisor: Dr. Cauligi Raghavendra Aug. 2016 - May. 2018 Advisor: Dr. Cauligi Raghavendra Research: Machine learning for phenotypic pattern identification of adolescents with drug usage University of Electronic Science and Technology of China (UESTC) BACHELOR OF ENGINEERING IN RENEWABLE ENERGY MATERIALS AND DEVICES Sept. 2011 - Jul. 2015 Publications III Wenbo, Zhang, Hangzhi Guo, Prerna Ranganathan, Jay Patel, Sathyanath Rajasekharan, Nidhi Danayak, Manan Gupta, Amulya Yadav. A Continual Pre-training Approach to Tele-Triaging Pregnant Women in Kenya. In the Thirty-Seventh AAAI Conference on Artificial Intelligence (AAAI), February 2023. (System has been full-time deployed by Jacaranda Health) Research Experience A tele-triage framework to lower the risk of maternal and neonatal death in Kenya ADMISOR: DR. AMULYA YADAV Sept. 2021 - Jun. 2025 This work focuses on developing an NLP framework, using multi-lingual pretraining and continual pretraining, to predict the user's medical emergency level based on code-mixed SMS messages. This framework has been deployed inside the PROMPTS (digital health system developed by Jacaranda Health). According to the feedback from Jacaranda Health, this framework reduces the monthly system management cost by 22.8% and PROMPTS helpdesk's workload by ~12%. Machine learning for phenotypic pattern identification of adolescents with drug usage California, USA Feb. 2018 - Jul. 2018 Apursons: DR. CAULIGI RAGHAVENDRA Feb. 2018 - Jul. 2018 This research focuses on identifying potential students (in high school) who may use alcohol, cigarette or marijuana in the future. We analyze potential patterns which may lead such behaviors through the machine learning perspective. Awards, Fellowships, & Grants 2022 Al Societal Impact Award, Center for Artificial Intelligence Foundations and Engineered	Research	Interests	
Pennsylvania State University (PSU) DOCTOR OF PHILOSOPHY IN INFORMATICS (GPA: 4.0/4.0) Aug. 2021 - Present Advisor: Dr. Amulya Yadav University of Southern California (USC) Advisor: Dr. Cauligi Raghavendra Advisor: Dr. Cauligi Raghavendra Research: Machine learning for phenotypic pattern identification of adolescents with drug usage University of Electronic Science and Technology of China (UESTC) BACHELOR OF ENGINEERING IN RENEWABLE ENERGY MATERIALS AND DEVICES BACHELOR OF ENGINEERING IN RENEWABLE ENERGY MATERIALS AND DEVICES Publications [1] Wenbo, Zhang, Hangzhi Guo, Prerna Ranganathan, Jay Patel, Sathyanath Rajasekharan, Nidhi Danayak, Manan Gupta, Amulya Yadav. A Continual Pre-training Approach to Tele-Triaging Pregnant Women in Kenya. In the Thirty-Seventh AAAI Conference on Artificial Intelligence (AAAI), February 2023. (System has been full-time deployed by Jacaranda Health) Research Experience A tele-triage framework to lower the risk of maternal and neonatal death in Kenya ADVISOR: DR. AMULYA YADAV Sept. 2021 - Jun. 2022 A tele-triage framework been deployed inside the PROMPTS (digital health system developed by Jacaranda Health). According to the feedback from Jacaranda Health, this framework reduces the monthly system management cost by 22.896 and PROMPTS helpdesk's workload by ~12%. Machine learning for phenotypic pattern identification of adolescents with drug usage California, USA Feb. 2018 - Jul. 2018 Apursors: DR. Cauligi Rachavendra This research focuses on identifying potential students (in high school) who may use alcohol, cigarette or marijuana in the future. We analyze potential patterns which may lead such behaviors through the machine learning perspective. Awards, Fellowships, & Grants 2022 Al Societal Impact Award, Center for Artificial Intelligence Foundations and Engineered	NLP for Social	Good, Al for Social Good, Natural Language Processing, Computational Game Theory, Speech Pro	ocessing.
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2014 3rd Class of National People's Scholarship (top 15%), University of Electronic Science and	2014	3rd Class of National People's Scholarship (top 15%). University of Electronic Scient	ence and

2013 3rd Class of National People's Scholarship (top 15%), University of Electronic Science and

Technology of China

Technology of China

2012 **3rd Class of National People's Scholarship (top 15%)**, University of Electronic Science and Technology of China

Teaching	Experience
8	
Spring 2022	DS 442 Artificial Intelligence, Teaching Assistant at Pennsylvania State University

Industrial Experience _____

Algorithm Engineer

Al Lab, Kingsoft Co., Ltd.

Beijing, China

Jan. 2019 - Jul. 2021

Applied NLP techniques to design modules inside knowledge graph.

• Employed deep neural network and speech processing techniques to construct the speech synthesis system.

DIRECTION 1: KNOWLEDGE GRAPH

Open domain knowledge graph construction

Beijing, China

PROJECT PARTICIPANT

Jan. 2021 - Jul. 2021

- Designed modules (name entity recognition and relation extraction) for Chinese knowledge graph construction.
- The knowledge graph has been deployed inside the Kingsoft electronic notebook website.

DIRECTION 2: SPEECH PROCESSING (ESPECIALLY SPEECH SYNTHESIS)

English multi-speaker speech synthesis system for novel website

Beijing, China

PROJECT LEADER

Jul. 2020 - Dec. 2020

- Developed a system which generated speech with someone's tone through few minutes' voice recordings.
- Created a prototype for audiobook reading on English novel translation website to support multiple human voices.

End-to-end framework for Chinese polyphone pronunciation prediction

Beijing, China

PROJECT LEADER

Apr. 2020 - Jul. 2020

- Built end-to-end framework for pronunciation prediction of Chinese polyphone with multi-phonemic values.
- Improved the pronunciation correctness of Chinese speech synthesis system.

NLP based Chinese text prosody prediction

Beijing, China

PROJECT LEADER

Jan. 2020 - Mar. 2020

- Modeled the prosody (short pronunciation break among Chinese words) prediction as the sequence tagging problem.
- Improved the naturalness and quality of the synthesized speech generated from Chinese speech synthesis system.

End-to-end Chinese speech synthesis system

Beijing, China

PROJECT LEADER

Jan. 2019 - Apr. 2020

- Implemented end-to-end Chinese speech synthesis system, including the text processing module (which extracts semantic information from input sentences), acoustic model (which predicts acoustic features based on the semantic information), and the vocoder model (which transforms acoustic features into speech signals).
- Applied on the Kingsoft policy question answer (QA) system.

Past Internship and Research Visit _____

Comprehend Information Technology Co., Ltd.

Suzhou, China

MENTOR: DR. HENGCHANG LIU

Jun. 2017 - Aug. 2017

• NLP-based data mining on the traffic data (electronic checkpoints data) accessed from Suzhou City Brain.

Skills_

DevOps Google Cloud Platform, Alibaba cloud, Docker

Back-end Django

Programming Python, R, C, LaTeX, Shell **Framework** Tensorflow, Pytorch