

Ruoyang Xiong

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EDUCATION

University of Florida	Aug 2021 - Dec 2022
Computer Science Master	
Hebei University of Technology	Sep 2011 - Aug 2015
Intelligence Science and Technology Bachelor	

RESEARCH EXPERIENCE

Analysis of the urban road network and layout of a city based on machine learning	Aug 2021 - Present
Student Assistant I The SERMOS Lab of UF	Gainesville
* Matched accuracy escaping routes of survivals in a terrific wildfire based on Markov chain by using real GPS data	
* Evaluate the reasonableness of the urban road network design in a city by analyzing the survivors' choice of escape routes, the time to escape the fire field, and the traffic congestion on the main roads during the wildfire	
Analysis of toxic comments on the internet based on machine learning	Sep 2021 - Present
Student Assistant I CISE	Gainesville
* Trained a deep learning model (CNN-LSTM with pre-trained word embeddings) for analyzing the targets(toxic or non-toxic, which types of toxic comments) of comments	
* Used a pre-trained BERT model on the same dataset and compare the two models concerning their accuracy metrics	
* Used SHAP and LIME to interpret the results especially the false results	
* Analyzed the effects of addition, replacement, and deletion of certain words on judgment based on the above two models.	

WORK EXPERIENCE

Beijing Indemind technology Co.,Ltd	Mar 2020 - Aug 2021
C++ engineer I SDK Group	Beijing
<ul style="list-style-type: none">Managed the development work of the group, formulating a phased development plan for the group, releasing new versions of the SDKDesigned the framework of the project; designing the communication, and transmission of data between algorithm groupsDeveloped the SDK which relates automatic simultaneous localization, mapping, and navigation of a kind of floor cleaning robot	
Beijing MYNT AI technology Co.,Ltd	Apr 2016 - Mar 2020
Group leader & C++ Engineer I SDK Group	Beijing
<ul style="list-style-type: none">Obtained a patent for invention(CN108510550A: automatic calibration device for the visual camera)Managed the development of MYNTEYE SDK which is a kind of visual dual-camera and is widely used in the field of SLAMDesigned software development kits for the MYNTEYE series	

MISCELLANEOUS

- Skills:** C++, Python, Jupyter, CMake, Golang, Javascript, C, C#, F#
- More details:** <https://ruoyangxiong.netlify.app/>