## Cheng Xu

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EDUCATION	<b>University College Dublin</b> , Dublin, Ireland Ph.D. Candidate, Computer Science	Sep 2022 - Present
	Supervisor: Prof. M-Tahar Kechadi Tentative Thesis Title: Deep Learning to Combat the Diffusion in Fake News	
	Huaibei Normal University, Huaibei, P.R. China B.Eng., Data Science and Big Data Technology Mentor: Prof. Qi Fan & Prof. Longfeng Shen GPA: 90.34/100, Graduated with Provincial Honor (Highest for graduates)	Sep 2018 - Jun 2022
HONORS	Graduate with Honor of Anhui Province (Top 3%), Anhui Province Government Graduate with Honor (Top 10%), Huaibei Normal University "Top 100 Outstanding College Students" honorary title, Anhui Province Government "Top Ten College Students" honorary title, Huaibei Normal University" First Prize Scholarship for Innovation (Top 15), Huaibei Normal University First Prize Scholarship (Top 3%) Huaibei Normal University Academic Excellence Award, Huaibei Normal University	$2022 \\ 2022 \\ 2021 \\ 2021 \\ 2021 \\ 2019 - 2021 \\ 2019 - 2021 \\ 2019 - 2021$
PUBLICATIONS	<ul> <li>* indicates co-first authorship.</li> <li>[1] Cheng Xu, Nan Yan. AROT-COV23: A Dataset of 500K Original Arabic Tw (ICLR 2023, AfricaNLP Workshop)</li> <li>[2] Cheng Xu, Jing Wang, Tianlong Zheng, Yue Cao, Fan Ye. Prediction of prognosis at with gastric cancer by a weighted improved random forest model: an application of medicine. (Archives of Medical Science, 2022.)</li> <li>[3] Cheng Xu, Qingling Chen, Fan Ye, Qi Fan, Qing Wang. Selection of surgical proceprognostic factors in patients with primary gastric tumour based on Cox regressianalysis based on data mining. (Gastroenterology Review, 2021.)</li> </ul>	veets on COVID-19. nd survival of patients f machine learning in edures and analysis of on: a SEER database
WORK EXPERIENCE	<ul><li>Ph.D. student, Insight SFI Research Centre for Data Analytics</li><li>Led the development of a multi-perspectives based fake news detection system.</li></ul>	Sep 2022 - Present
	<ul> <li>Research Assistant, Data Mining Lab of Huaibei Normal University</li> <li>Conducted research in data mining under the supervision of Prof. Qi Fan.</li> <li>Demonstrated leadership skills by leading and contributing to five scientific research</li> <li>Managed laboratory operations and resources in the third year of my undergrated organizational and project management skills.</li> </ul>	Nov 2018 - Oct 2021 h projects. duate, enhancing my
ACADEMIC SERVICES	Journal Reviewer: Archives of Medical Science	
PROJECT EXPERIENCE	<ul> <li>Cancer Damage Prediction Using Data Mining and Machine Learning Project Manager </li> <li>Led and supervised a cancer damage prediction project that was funded by the Nation Innovation and Entrepreneurship Program in P.R. China, under Grant 20201 S201910373149. </li> <li>Recommended the project achievements for participation in the 15<sup>th</sup> China University and Entrepreneurship Annual Conference. </li> <li>Spearheaded the entire development cycle of the project, including data preparation imputation, modeling, and evaluation. </li> <li>Applied various machine learning models on the datasets, including both classic mo Decision tree) and our improved models.</li></ul>	Jun 2019 - Jun 2021 nal University Student 0373032 and Grant y Students Innovation , collection, cleaning, dels (Random Forest,

## Network Attack Monitoring and Classification based on Big Data and Machine Learning Data Scientist Oct 2020 - Present

- Funded by the National University Student Innovation and Entrepreneurship program in P.R. China under Grant 202110373041, the results of the project are expected to have practical application value.
- Conducting research on identifying and analyzing abnormal network traffic records from a massive dataset (over 2 million records) using big data technologies.
- Utilizing machine learning models such as neural networks and reinforcement learning to classify different types of network attacks.
- Performing exploratory data analysis and visualizing network traffic using various graphs to detect patterns in network attacks.

## Predictive Research on Analyzing Psychological Emotional Needs Based on Big Data

Data Scientist

Data Scientist

- Received funding from the National University Student Innovation and Entrepreneurship in P.R. China under Grant 202110373044.
- The project aims to use deep learning techniques and scientific computing libraries (NumPy, Pandas) to analyze text data obtained through web scraping.
- Applied natural language processing (NLP) to extract valuable insights from the data, enabling the identification, explanation, and prediction of emotional states.

## Prognostic Prediction of Pancreatic Cancer Based on Machine Learning

Aug 2021 - Present

Aug 2021 - Present

- This research project is funded by the National University Student Innovation and Entrepreneurship in P.R. China under Grant 202110373042.
- Apply Multi-label Classification algorithm for Survival Analysis, utilizing Machine Learning models such as Neural Networks and Ensemble Learning.
- Work collaboratively with a team of researchers to analyze and interpret the data, as well as to develop and optimize the predictive models.