

SHIYI (DENNIS) HU

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EDUCATION

New York University Shanghai	Shanghai, China
BS in Data Science, BS in Economics GPA: 3.91/4.00	Sep 2019 – May 2023
New York University Abu Dhabi – Fall 2021	Abu Dhabi, United Arab Emirates
New York University New York – Spring 2022	New York, United States of America
Awards: Peng Yachao Global Excellence Scholarship NYU Shanghai 2022 Recognition Award Dean's List 2020, 2021, 2022	

RESEARCH EXPERIENCE

Factual Generalization Capabilities of GPT-3 Across Domains	New York, USA
Undergraduate Researcher with Prof. Samuel Bowman (NYU New York)	Mar 2022 – Jun 2022
<ul style="list-style-type: none">Produced a paper on the falsehood patterns of large language models, and how to make them more truthfulCrowdsourced 2000+ question-answer pairs to generate 200,000+ prompts with effectiveness evaluated on GPT-3Performed transfer learning on 36,000 samples to find that GPT-3 produces 43% less falsehoods with more prompts	
RL for CAD Flows and Secure Chip Design	Abu Dhabi, UAE
Research Assistant to Prof. Ozgur Sinanoglu (NYU Abu Dhabi)	Oct 2021 – Mar 2022
<ul style="list-style-type: none">Implemented reinforcement learning algorithms to replace human experts in the logic synthesis phase of chip designProposed a novel A2C agent learning framework to simulate 30+ attack situations, enhancing chip securityDelivered an average area improvement of 13.19% compared to human expert-crafted circuits based EPFL benchmarks	
NBA Winning Rate and Season Record Prediction	Shanghai, China
Undergraduate Researcher with Prof. Li Guo (NYU Shanghai)	Mar 2021 – May 2021
<ul style="list-style-type: none">Implemented 6 different machine learning models to predict NBA game outcomes based on pre-game team statsDeveloped aggregate functions to automate raw dataset preprocessing and dynamic data extraction on 12,300 gamesImproved prediction accuracy by 5.8% over the brute homecourt advantage prediction with optimized model	

PROFESSIONAL EXPERIENCE

Craft Associates (censorship-resistant NLP)	Shanghai, China
Data Analyst Intern	Jul 2022 – Present
<ul style="list-style-type: none">Worked closely with the founder to develop a pipeline that fetches, aggregates, and sorts Weibo and WeChat postsDeveloped censorship-resistant NLP algorithms to filter 30,000+ web posts based on relevance to given keywordsDelivered monthly data-curated market insights to clients from tech companies such Qualcomm and Huawei	
Applied Artificial Intelligence Center, Shanghai General Hospital	Shanghai, China
Research Analyst Intern	May 2021 – Nov 2021
<ul style="list-style-type: none">Worked closely with a team of researchers to build an intelligent diagnosis platform for mild-symptom patientsGathered empirical patient data and trained a large neural network for arrhythmia detection with f1 score of 0.813Produced two 3,000-word reports on the ethical and social impacts of the project and presented to stakeholders in the third-quarter conference	

COMMUNITY SERVICE

United Nations World Food Program, Data Management Volunteer	Jun 2022 – Present
<ul style="list-style-type: none">Produced content analytics for 15+ videos for the World Food Program, 3 of which landed on the UN AppSupported three interviews on WFP's programs on balance and mental wellbeing during prolonged lockdown periods	
Global Writing and Speaking Fellows, NYU Shanghai Writing and Speaking Learning Assistant	Feb 2021 – Present
<ul style="list-style-type: none">Curated 30 total hours of academic writing practicums as a weekly series for Global Writing and Speaking Fellows300+ hours of one-on-one tutoring with NYU undergraduates on writing research proposals, literature reviews, etc.	
International Youth Neuroscience Association, Head of Events Committee	Feb 2020 – Present
<ul style="list-style-type: none">Planned reception for the Brain Awareness Week with a capacity for 300+ contestants, judges, audience, and panelistsExecuted outreach to Tongji University for competition events promotion and secured a place in its newsletter	
Shanghai International Marathon, Volunteer	Nov 2019, 2020
<ul style="list-style-type: none">Distributed medals to the half-marathon and 10k race, helped with delivering food and medicine to 8 designated spots	
SHKP Charity Run, Volunteer	Oct 2019
<ul style="list-style-type: none">Helped plan reception and scheduling for 17,000+ runners in charity for the Shanghai Children's Healthy Foundation	

SKILLS & INTERESTS

- Programming skills:** Python (Numpy, Scikit Learn, Pandas, Flask, Pytorch), SQL, MongoDB, R, Stata, Verilog
- Interests:** Athletic trainer, shooting guard on school basketball team; writer and translator on UnCoVer (a WeChat subscription account with 2k+ followers); amateur music producer and beatmaker