Yunting (Heather) Yin

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EDUCATION

Stony Brook University, Stony Brook, NY — Aug 2019 - Present
Ph.D. in Computer Science — GPA: 3.86/4.0
Research Interests: Natural Language Processing, Machine Learning
Recipient of Chairman's Fellowship

Pace University, New York, NY — Sept 2016 - May 2019
B.S. in Computer Science — Rank: 1, GPA: 3.98/4.0
Graduated with Scholastic Achievement Award and Summa Cum Laude Honors
Recipient of Honors College Scholarship and Honors Opportunity Scholarship

TECHNICAL SKILLS

Languages: Python, Java, C/C++, C#, SQL, R, PHP, JavaScript
Tools & Software: Jupyter, PyCharm, Eclipse, Git, Visual Studio, Matlab, LaTeX
Libraries: NumPy, Scikit-learn, NLTK, PyTorch, Keras, TensorFlow, Hadoop, d3.js

EXPERIENCE

Teaching Assistant, Stony Brook University — Aug 2019 - Present
Teaching assistant for the following courses:
- CSE 307 Principles of Programming Languages (Fall 2019 & Spring 2020)
- CSE 351 Introduction to Data Science (Summer 1 2020)
- CSE 215 Foundations of Computer Science (Summer 2 2020)

Math Tutor, Pace University Learning Center — Sep 2018 - May 2019
- Help students understand Statistics and Calculus

Web Developer Intern, Overseas Students Services Corp Oct 2017 - May 2018
- Code web applications and integrate into WordPress CMS
- Work in team to create client-friendly web interfaces using CSS and JavaScript

PROJECTS

How much do people sleep?
Skills: Python, Numpy, **Scikit-learn**
Analyzed large-scale Twitter data to get insight into factors affecting how much sleep different populations receive, and how sleeping schedule affects mental health.

Seatizen App
Skills: C#, Python, Microsoft Azure
Developed during MTA hackathon to predict occupancy patterns using historical data and calculate real time passenger count using camera feeds and object identification.

Seq2Seq ChatBot
Skills: Python, **TensorFlow**
Created a neural network-based chatbot model from a dataset of movie conversations.

COVID19 Data Analysis
Skills: **Hadoop**, MapReduce, **Spark**
Reported number of deaths and number of cases per 1 million population for every location/country in between a given range of dates to analyze the spread of virus.

PUBLICATION

Nanjie Deng, Junchao Xia, Lauren Wickstrom, Clement Lin, Kaibo Wang, Peng He, **Yunting Yin**, and Danzhou Yang. "Ligand Selectivity in the Recognition of Protoberberine Alkaloids by Hybrid-2 Human Telomeric G-Quadruplex: Binding Free Energy Calculation, Fluorescence Binding, and NMR Experiments", in Molecules 2019, 24(8), 1574. [**Contribution: Python Scripts for Computation**]