# Yumian Cui

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## Summary

○ Junior undergrad, aspiring data scientist and quantitative thinker with knowledge including(but not limited to) **Python, R, SQL,& Machine Learning**, and in process of studying deep learning Neural Network (more)

## Education

○ **University of Wisconsin-Madison** **Madison, WI**

Degree: Bachelor of Sciences Sep 2018 - May 2022 (expected)

Major: Economics (Math emphasis) + Data Science (GPA: 3.81)

Certificate: (intended)Computer Science

Academic Honors: Dean's list*2 (Spring 2018-2019, Spring 2019-2020)

Extracurricular: Data Science Club (2020 Data Challenge on heart failure prediction)

## Experiences

○ **UW-Madison Department of Computer Science** Remote, China

CS 220 Peer Mentor Spring 2021
- Hold office hours as undergrad TA to help student with lab/project/or troubleshoot general coding issues
- Lead lab section to go through lab code or assist TA to address chat questions
- Design weekly quiz questions for course in a team of 3

WISCERS undergraduate research mentee Spring-Summer 2021
- Selected to participate in CS department newly launched WISCERS research mentorship program
- Engage in weekly meeting/project with matched Professor & Graduate Mentor to gain research experiences

○ **Jiangyun Intelligence ltd.** Remote, China

Machine Learning Intern Spring 2021
- Apply computer vision algorithms on real-world industry datasets, including tasks like classification, semantic segmentation, defect detection

○ **UW-Madison Department of Economics** Madison, WI

LEAD@econ Mentor Spring 2021
- Selected to support a freshman mentee by providing career/academic/life advice/resources
- Engage in monthly leadership trainings with over 50 students to grow personally and professionally

EconEx Research and Data Analysis Externship Summer 2020
- Selected for independent research project performing data analysis to Covid-19 situation in New York
- Completed over 15 hours of training on data analysis tools(LinkedIn) and collaborated with the mentor
- Created data visualization using Python & Excel and presented findings of Covid impact on consumer & retail trends in NYC

## Projects

○ **Customer Churn prediction in Telecommunication industry** Aug 2020
- Developed algorithms for Telecommunication customer churn prediction based on labeled data from Kaggle via Python programming
- Preprocessed dataset by data cleaning,categorical feature encoding,regression imputation,standardization
- Trained supervised learning models including Logistic Regression,Random Forest,K-Nearest Neighbors and applied regularization with optimal hyperparameter selection to resolve overfitting
- Evaluated model performance(80.6% accuracy, 65.8% precision, 55.7% recall, 83.3% AUC score for LR) via GridSearch(K-fold cross validation) and selected top features influencing customer retention[added: later obtain 80.2% accuracy first try with linear classification neural network algorithm]

## Skills

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|---|---|
| ○ **Programming:** | Python, STATA, R, Java, SQL, LaTeX, HTML(basics) |
| ○ **Analysis:** | Supervised/unsupervised Learning, Regularization, Model Evaluation, Exploratory Data Analysis, Hypothesis testing, A/B testing(basics) |
| ○ **Others:** | Adobe Photoshop, Microsoft(Excel,Word,PowerPoint), Adobe Premiere |