KATE XU

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EDUCATION

Massachusetts Institute of Technology (MIT) Aug 2018 - May 2022
Candidate for Bachelor of Science in Computer Science, Economics, and Data Science
Double Major in Mathematics, GPA: 4.7/5.0

Relevant Coursework
Machine Learning, Algorithms and Data Structures, Fundamentals of Programming, Discrete Math for CS, Linear Algebra, Probability and Random Variables, Multivariable Calculus, Microeconomics, AP Statistics

WORK EXPERIENCE & PROJECTS

Bancolombia (Medellín, Colombia) June 2019 - Present
Data Science Intern
- Research state-of-the-art methods to predict credit risk from highly imbalanced datasets using Scopus
- Design, implement, and train machine learning models to solve problem of low default portfolios (LDP)
- Present and communicate project proposal and results to boss, supervisor, and data engineers

6.0001/6.0002 Computer Science and Programming in Python Feb 2019 - May 2019
Course Assistant
- Debugged, graded, and wrote solutions to weekly problem sets using Python for a 350+ student class
- Evaluated student understanding on coursework and mentored students during office hours

Brain Power Jan 2019 - Feb 2019
Software Engineer Intern
- Implemented Google Cloud Vision API and optical character recognition software to enable text detection of inventory serial numbers for company to more efficiently register Google Glass products
- Expanded web application functionality with AngularJS and Node.js for modifying and accessing data

MIT Digital Humanities Lab Sep 2018 - Dec 2018
Student Researcher
- Contributed to open source project analyzing gender in English novels published between 1770-1922
- Designed and deployed gender novels project website to web server using Python, Flask, and PowerShell

LEADERSHIP & SERVICE

MIT Office of the First Year May 2019 - Present
Associate Advisor
- Guide first-year students and faculty advisors with registration process for fall and spring semesters
- Organize academic and social activities to help incoming students transition from high school to college

Beautiful Patterns (Aguascalientes, Mexico) May 2019
Computer Science Instructor
- Taught introductory course on algorithms and web development to a class of 16 middle and high school girls
- Collaborated with team of instructors to create lesson plans and organize hands-on learning activities

SKILLS

Programming:	Python (proficient), JavaScript, HTML, and CSS (familiar)
Libraries and APIs:	Pandas, NumPy, and Scikit-Learn (proficient), AngularJS and Node.js (familiar)
World Languages:	Spanish and Mandarin Chinese (proficient), English (native)

AWARDS & INTERESTS

- Rewriting the Code (RTC) Fellow, Jane Street Women in STEM Participant, National Merit Scholarship Winner, American Invitational Math Exam (AIME) Qualifier, US National Chemistry Olympiad (USNCO) Qualifier
- MIT Varsity Fencing Team, Pi Beta Phi, Asian Dance Team, glassblowing, traveling