SANDEEP MUKHERJEE

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UC Berkeley Math and CS Major seeking interesting problems to tackle.

EDUCATION   (09/2020) – Present

University of California, Berkeley | Bachelor of Arts in Mathematics & Computer Science
GPA: 4.00 | ACT Score: 36 Composite, 36 on all subsections

EXPERIENCE

Undergraduate Researcher | Berkeley AI Research/AUTOLab   (09/2020) – Present

Working under Prof. Goldberg. Redesigned a Django web application which gained over 1500 users using mobile-friendly formats and created D3 network graphs to map influence. I am currently working on the AlphaGarden, where I am using Computer Vision and designing models to track plants' centers throughout development and create a segmentation pipeline.

Quantitative Analyst/Teaching Assisstant | Capital Investments at Berkeley   (09/2020) – Present

Performed an election study on the relationship between various sector ETFs (SPY, XLI, etc) and New York Times headline sentiment towards political parties and candidates. Currently TA for the Quant Finance DeCal and founding member of the Berkeley Trading Competition.

Grader | The Art of Problem Solving   (09/2020) – Present

Grade and engage with students in subjects varying from Olympiad mathematics, probability, and computer science, where I consistently demonstrate mastery, the ability to teach a myriad of problem-solving strategies.

Student | Google CSSI Online   (07/2020) – (09/2020)

Engaged with the fundamental principles of data structure and algorithms including greedy algorithms, dynamic programming, divide-and-conquer algorithms, and debugging techniques in a competitive Google CS program.

SKILLS AND ACCOMPLISHMENTS

- Software Engineering (in order of fluency): Python | Java | HTML/CSS/JS/React | R
- Problem Solving: Competition Mathematics | Data Structures and Algorithms
- National Merit Commended Scholar: One of 4500 students selected out of all the nation's high school seniors based on PSAT Score
- National AP Scholar: For achieving an average score of a 4 or higher on at least 8 AP exams

PROJECTS | github.com/sandeepmukh

Citadel Datathon 2020 | NYTvSectorETFs Election Study | Personal Website | School Projects | Go-Vote.network