Akash Dasgupta

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EDUCATION

University of California - Berkeley - *B.A Statistics & B.A Computer Science*

AUGUST 2021 - JUNE 2024, **GPA:** 3.6

Relevant Coursework: *Foundations of Data Science, Structure and Interpretation of Computer Programs, Data Structures, Designing Information Devices & Systems (I & II), Multivariable Calculus, Linear Algebra*

EXPERIENCE

Data Science Undergraduate Lab, UC Berkeley - *Data Science Researcher*

SEPTEMBER 2021 - PRESENT
Working in AI/Machine Learning division in sentimental analysis project involving tweet analysis to determine general sentiments towards COVID-19

Student Association for Applied Statistics - *Statistician*

SEPTEMBER 2021 - PRESENT
Working within the Research & Publication Committee in creating a predictive model estimating college major based on features including ethnic background, gender, and socioeconomic factors using Pandas and Sci-Kit Learn

Data Science Society, Berkeley - *Data Science Researcher*

SEPTEMBER 2021 - PRESENT
Creating a predictive model to discover the most indicative features of socioeconomic class changes including ethnic group, location, and gender using Pandas and Matplotlib

Division of Computing, Data Science, & Society, UC Berkeley - *Teaching Assistant*

SEPTEMBER 2021 - PRESENT
Assisting in the creation of course material for UC Berkeley's Foundations of Data Science Course and the Applications of Data Science in Physics Course; acting as lab instructor and have led several workshops covering statistical principles

Department of Materials Science & Engineering - *Research Assistant*

JUNE 2020 - JUNE 2021

Designed Perovskite Solar Cells as a cheaper alternative to Silicon-based solar cells and used MatLab to design electrochemistry data analysis scripts

PROJECTS

Scheme Interpreter: Built an interpreter for the Lisp dialect Scheme using Python; involved a recursive descent parser, lexical and syntactical analysis, as well as input parsing

TypeRacer-style Game: Developed an autocorrect software in Python that tracks mistakes in typed text while providing suggested words and also tracks typing speed

SKILLS

Statistical Analysis, Hypothesis Testing, A/B testing, Data Visualization, Python (libraries: Pandas, NumPy, Matplotlib), SQL

Fluent in French, English, and Bengali