Akhil Jalan

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EDUCATION

University of California, Berkeley (Class of 2019) **GPA: 3.97**

B.A. Applied Mathematics (Data Science Concentration), B.A. Computer Science

Regents' and Chancellor's Scholar, Class of 2019 (Awarded to top 2% of undergraduates)

Relevant Courses: Machine Learning (in progress), Numerical Analysis (A), Real Analysis (A), Linear Algebra (A+), Concepts of Statistics (A), Concepts of Probability (A+), Algorithms (A)

WORK EXPERIENCE

Software Engineering Intern Sunnyvale, CA

Hashcut May 2017-August 2017

- Saved 100+ hours of employee time by proposing and implementing video contest automation, using Javascript jQuery library and HTML bootstrap library for front-end
- Ensured long-term project stability by creating a unit, assertion, and integration testing suite using Javascript Mocha library and Chai assertion library
- Generalized video ingestion from multiple sources (YouTube, Vimeo, Twitch) using a custom-defined scheme in MongoDB database for back-end
- Automated ingestion and processing of user data with the YouTube API

PROJECTS

Political Partisanship: A Look at the Data (Python)

- Found statistically significant increase in ideological difference between parties (using Poole-Rosenthal DW-NOMINATE scores of Congress members)
- Published in Towards Data Science with over 300 reads
- Gathered Congressional data from 1953 to 2015 on political ideology and vote clustering

Observations from Census Data (Python)

- Found that extremes of voting power for U.S. House Districts cluster in smallest states
- Published in Towards Data Science with over 100 reads
- Examined US Census Bureau data from 1920-2010

CIFAR-10 Image Classification (Python) - In Progress

- Using computer vision techniques to train a classifier to classify the CIFAR-10 image dataset
- Comparing performances of machine learning techniques such as feedforward neural networks, convolutional neural networks, quadratic discriminant analysis, and linear regression

LEADERSHIP

President Berkeley, CA

Effective Altruists of Berkeley January 2017-Present

- Secured over $1 million in expected donations by getting 30+ students to take the Giving What We Can pledge
- Doubled club membership by creating a fellowship program and personalized outreach strategy
- Researched and delivered 25+ hours of presentations. Topics included population ethics, cause prioritization, and cognitive biases (materials available upon request)

SKILLS & INTERESTS

Languages: Python, SQL, R, Java, MATLAB, Bash, Javascript, HTML5, LaTeX

Libraries: Scikit-learn, Keras, Tensorflow, Numpy, Scipy, Pandas, Matplotlib, Plotly, Seaborn, Scrapy

Tools: Tableau, Jupiter Notebooks

Interests: Cooking, Podcasts, Chess, Hiking, Coffee