

ARUN RAMAMURTHY

Applied Statistician & Data Engineer

2607B Hillegass Avenue
Berkeley, CA 94704
(301) 367-5597

UC Berkeley – December 2019 | GPA: 3.55

Statistics, B.A. | Computer Science, B.A.

Machine Learning • Artificial Intelligence • Fourier Analysis

Cybersecurity • Databases • Parametric & Nonparametric Models

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DATA SCIENCE SKILLS

R  Statistical Models 

Python  Machine Learning 

Java  Signal Processing 

WORK EXPERIENCE

Data Scientist, Sentieo

San Francisco, California / New York, New York

May 2018 – CURRENT

Develops production-ready modeling and data mining systems in R, integrating with the existing Python-based platform

- Implementing a variety of NLP, textual analysis, and topic modeling techniques, I designed, tested, and deployed an automated tagging algorithm for financial research reports, ensuring < 4% false-negative miss rates against human-collected tags for a representative corpus of 487 documents, across all eleven tag types
- I designed an interpretable hierarchical financial model that utilizes alternative data streams (e.g. Google Trends, Twitter, etc.) and financial time series data to characterize and predict the spread between consensus estimates and actual quarterly revenues, as well as beat likelihood, for a given quarter of a large cap company

Data Scientist, Environmental Progress

Berkeley, California

May 2017 – February 2018

Harvested, analyzed, and visualized data for research and publication across all current research projects to inform and further develop energy policy. Published both qualitative and heavily analytical research and models in energy-related areas.

- My statistical research findings on the role of energy policy and clean energy technologies in climate mitigation for 68 nations over 51 years were covered by Eduardo Porter in the November 7, 2017 issue of *The New York Times*

System Administrator, HedgeSPA

Singapore, Singapore

May 2016 - August 2016

Designed, implemented, and configured open-source mail and file sharing servers with specialized security features

ADDITIONAL EXPERIENCE

President, Statistics Undergraduate Student Association

Berkeley, California

August 2015 – May 2018

Led 116 undergraduates in six distinct committees, presiding over all club events, consulting projects, and client relations

- Rebranded and marketed a reformed iteration of the student organization, growing membership from 67 to 116 students
- Led the SUSA team to win Best in Show in the 2018 Datafest, and Runner-Up in Facebook's Data for Good competition

Data Science Education

- Currently writing an extended textbook on rapid statistical research and production deployment of data mining systems via modern R programming – includes 50 practice problems per chapter and multiple projects for additional skill development
- Has delivered 25+ workshops and lectures on as diverse topics as statistical modeling, deep learning, and Git / CLIs.