

Ruta Joshi

Student and Future Entrepreneur at UC Berkeley

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Education

B.A. Computer Science (also intended Data Science)
University of California, Berkeley
Google Anita Borg Memorial Scholar 2016

2015 – 2019
(GPA: 3.98)

Experience

- **Engineering Practicum Intern at Google – Geo: Trusted Contacts Team** 5/2017 – present
Server-side application development with databases and Google-internal tools to add an upcoming standalone feature. Wrote design docs, made product decisions, and implemented server-side functionality.
- **Undergraduate Student Instructor for Data 8 (CS C8) at UC Berkeley** 1/2017-5/2017
Teaching lab sections, developing course material, grading exams, holding review sessions for 700+ students
- **Taught Data Science Workshop at Walchand College of Engineering, Sangli** 12/2016-1/2017
Taught a weeklong workshop using Data 8 materials at a small private college in rural India
- **Machine Learning and Distributed Data Intern at Ampool.io** 5/2016-8/2016
Wrote machine learning [anomaly detection use case](#) using Spark Streaming, Scala, and Kafka. Also wrote modules to provide Python and R compatibility with distributed data store and a library of distributed coprocessor functions
- **Instructor/Tutor at UC Berkeley for Data 8: Foundations of Data Science** 1/2016-12/2016
Mentored underrepresented students (lead tutor for Data Scholars program), provided large group tutoring, worked with course staff for a class of 600+ students
- **Marketing and Business Development Intern at Codenvy** 6/2015 - 8/2015
Led a project to create a market map of containers and how they disrupt DevOps. Worked directly with CEO Tyler Jewell, learned about market research, collaboration, containers software, and leadership
- **Founder and President of MV Hacks (1st official school hackathon)** 7/2014 - 7/2015
Organized Monta Vista High School's first high school hackathon. Developed leadership, programming, problem-solving, collaboration, teamwork, sponsor relations

Skills

Concepts: Leadership, Data Science (AI, machine learning, statistical analysis), Marketing, Research, Experimentation

Programming: Python, Java, R, Spark, Scala, SQL, Protocol buffers, Bash

Languages: English, Marathi, Hindi, Spanish, Russian (in progress for fall 2017)

Research

AUTOLAB Researcher: Artificial intelligence in robotics, learning from demonstration (Prof. Ken Goldberg, et. al) 1/2017-present

Dimensionality Reduction, Machine Learning: Clustering and PCA applications to graph models in education, working at Berkeley Center for New Media with Prof. Greg Niemeyer, et al. 1/2016-5/2016

Cleantech Competition International Top 25: Research in nitrate reduction and water pollution for clean technologies. Also researched cancerous proliferation in yeast cells. 8/2012 - 7/2015

Papers: [Available to download at rutajoshi.github.io](http://rutajoshi.github.io)

Relevant Coursework

Structure & Interpretation of Computer Programs – CS61A
Data Structures – CS61B
Computer Architecture/Machine Structures – CS61C

Discrete Mathematics and Probability – CS70
Info Devices/Systems – EE16A
Foundations of Data Science – CSC8

Algorithms – CS170
Artificial Intelligence – CS188

Organizations

- **AUTOLAB at UC Berkeley** 1/2017 - present
Undergraduate student researcher in Robotics and Artificial Intelligence
- **Machine Learning at Berkeley (ML@B)** 1/2016 - present
UC Sourcing Project Team (Spring 2016), Semantic Patch Generation Team (Fall 2016)
- **UPE CS Honor Society** 1/2017 – present
Industrial Relations Chair (Officer)
- **Data Scholars (UC Berkeley Academic Organization)** 8/2016 – 12/2016
Lead Tutor/Instructor for program to support underrepresented minorities in Data Science