Subhiksha Mani

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Experience

- **Google** — Cambridge, MA
  Software Engineering Intern, YouTube Data Infrastructure — *Summer 2018*
  - Devise a **mapping service** from production to development environments to simulate continuous playback
  - Optimally handle **load testing** as defined by historical time and watch patterns in YouTube video data

- **Division of Data Science, UC Berkeley** — Berkeley, CA
  Analytics Research Team Lead — *Jan 2017 - Present*
  - Lead a team of undergraduates that develops tools to understand data science ecosystem through student experience and course data
  - Directly impact development of the first data science major based on insights gained from **data analysis**

- **EECS and Statistics Department, UC Berkeley** — Berkeley, CA
  Undergraduate Student Instructor (uGSI): Foundations of Data Science — *Aug 2017 - Present*
  - Teach a weekly lab of 30 students **statistical inference techniques** such as hypothesis testing, regression, data mining and clustering using Python
  - Member of grading team and helping maintain autograding infrastructure for 1100+ students

- **Microsoft** — Redmond, WA
  Software Engineering Intern — *Summer 2017*
  - **Optimized search** on Microsoft's API documentation tool to efficiently process human errors in queries
  - Provided service recommendations with **Lucene search indexing** and instrumented data pipeline to guide code changes in C#

  Rotational Intern as Software Engineer and Program Manager — *Summer 2016*
  - Defined metrics for SnapGold (universal platform app open-sourced on GitHub) to track user activity
  - Leveraged **cross platform app development** skills to deliver a richer user experience on Xbox

Education

- **University of California, Berkeley** — Berkeley, CA
  Data Science, Computer Science: Emphasis in AI and Cognition (B.A.) — *Aug 2015 – May 2019*
  Community: CS KickStart Organizer Team, Association of Women in CS, CS Scholars

Skills and Coursework

- **Skills**: Python, C++, C#, Java, R, SQL, HTML/CSS, D3.js, Jupyter, LaTex
- **Courses**: Structure and Interpretation of Computer Programs, Data Structures, Data Science, Discrete Math, Probability Theory, Multivariate Calculus, Linear Algebra, Mathematical Statistics for Data Science, Machine Learning, Artificial Intelligence, Algorithms, Natural Language Processing (IP), Databases (IP)

Projects

- **Archetypes Classifier**: Implemented **k-means** algorithm to categorize student survey responses as student archetypes
- **Housing Price Predictor**: **Lasso regression** model, ranked in top 10 of class Kaggle competition
- **Clusters Mapping**: Developed interactive visualizations of student course pathways in data science using **D3.js**

Awards and Honors

- **UC Berkeley Leadership Award**: Ranked in top tier of awardees for demonstrating exemplary leadership qualities
- **Bio-Rad Scholarship**: Awarded for spreading STEM awareness and service excellence in the community
- **Grace Hopper Scholarship**: Sponsored by Microsoft to attend GHC in Orlando, FL
- **Valedictorian**: Ranked 1st in high school class and graduated summa cum laude