Subhiksha Mani

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EDUCATION

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

Hercules High School — Hercules, CA
Valedictorian, Summa Cum Laude — *Aug 2011 – June 2015*

COURSEWORK AND SKILLS

- **Courses**: Structure and Interpretation of Computer Programs, Data Structures, Data Science, Discrete Math, Probability Theory, Multivariate Calculus, Linear Algebra, Mathematical Stats for Data Science, Computing with Data, Machine Learning (IP), Artificial Intelligence (IP)
- **Languages**: Python, C#, C++, R, SQL, HTML/CSS, LaTex
- **Technologies & Libraries**: Jupyter, Git, Lucene Search Indexing, pandas, numpy, seaborn, dplyr, ggplot

EXPERIENCE

Microsoft — Redmond, WA
Software Engineering Intern — *Summer 2017*
- **Optimized search** on Microsoft's Swagger (an API documentation tool) to efficiently process human errors in queries and provide service recommendations using **Lucene search indexing**.
- Instrumented data pipeline and created dynamic reports with R to guide **data-driven code changes**.

Explorer Intern: Rotational Roles as Developer and PM — *Summer 2016*
- Defined metrics for SnapGold (universal platform app open-sourced on GitHub) to track user activity.
- Leveraged **cross platform app development** skills to enhance UI for a richer user experience on Xbox.

Division of Data Science, UC Berkeley — Berkeley, CA
Mapping Research Team Lead — *Jan 2017 - Present*
- Led a team of undergraduates that analyzes and develops tools to better understand the data science ecosystem through courses and student experience data.
- Engaged with researchers and faculty to help develop emerging **data science curriculum** at UC Berkeley.

EECS Department, UC Berkeley — Berkeley, CA
Undergraduate Student Instructor (uGSI): Foundations of Data Science — *Aug 2017 - Present*
- Responsible for teaching a weekly lab of 30 students **statistical inference techniques** using Python.
- Engage with students during my office hours and help with course development and logistics.

Group Tutor: Foundations of Data Science — *Aug 2016 - May 2017*
- Provided **personalized tutoring** to groups of 5 students teaching statistical inference methods.
- Developed worksheets and led review sessions covering hypothesis testing, A/B testing, and regression.

PROJECTS

- **Archetypes Classifier**: Used **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**: Devised categorization methodology for interactive visualizations of course pathways in **D3**

AWARDS AND HONORS

- **Grace Hopper Women in Computing Scholarship**: Sponsored by Microsoft to attend GHC in Orlando, FL.
- **UC Berkeley Leadership Award**: Ranked in top tier of applicants for demonstrating exemplary leadership qualities
- **Bio-Rad Scholarship**: Awarded for spreading STEM awareness and service excellence in the community