PRATHYUSHA CHARAGONDLA

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EDUCATION

University of California, Berkeley   **Berkeley, CA**
B.A. Computer Science (with concentration in Data Science)   **Dec 2018**
- **Coursework:** Data Structures (CS 61B), Foundations of Data Science (CS C8), Concepts in Computing with Data (Stat 133), Discrete Mathematics and Probability Theory (CS 70) , Social Data Revolution (Info 290A), The Structure and Interpretation of Computer Programs (CS 61A), Linear Algebra and Differential Equations (MATH 54)

San Diego Supercomputing Center (UC San Diego)
Data Intensive Summer School (within Virtual School of Computational Science and Engineering)
- **Coursework:** Working with Big Data, Introduction to Predictive Analytics and Data Mining, Techniques and Strategies for Big Data, Overview of Data Mining Tools

TECHNICAL SKILLS

Programming & Databases: Python, Java, R, C, HTML, CSS, Javascript, JUnit Framework, Git, SQL
IDE: IntelliJ, RStudio, Eclipse
Other Tools: LaTeX, Microsoft Office (Word, Excel, Powerpoint), WordPress, Adobe InDesign, Photoshop, Illustrator

KEY PROJECTS

Kindred Spirits, *1st Place AT&T VR/AR Hackathon - May 2017*
- Social Meditation Virtual Reality (VR) web app that reads and uses user's EEG data (measures electronic activity in the brain) to help facilitate more effective meditation, through visual and auditory cues. Implemented using Muse, Firebase Realtime Database, A-Frame, Javascript and Maya.

SPOT, Real-time Video Content Recognition & Labeling
- Web App that labels and tags live streams and videos based on content, provides a search engine to filter through tags and labels breakpoints. Implemented using Python, HTML, CSS, Javascript and Machine Learning software including TensorFlow, scikit Classification and Regression.

NBA Player Performance, Quantitatively Assessing and Visualizing the Value of NBA Players in the Season 2015-2016
- Used Principle Component Analysis and Basketball Efficiency Formula to visualize and analyze the value and performance of each player in the 2015-2016 NBA season in R. Created a Shiny App and developed a paper to visualize results.

GoGo Places, *CalHacks 2016*
- Game where the user can search and visit different cities and receives tokens from visiting the indicated places of interest in each city. Implemented using Amadeus Places of Interest API, Google Maps Geolocation API, JQuery library in Javascript, CSS, HTML

EXPERIENCE

Community Estimation and Visualization Project Advisor, Undergraduate Lab   February 2017 – Present
- Observe and Visualize the propagation of disease within networks at the various student Residence Halls
- Guiding the researchers in designing experiments, setting objectives, using machine learning tools

University of California, Berkeley, *Lab Assistant*   June 2016 – Present
Class: The Structure and Interpretation of Computer Programs (CS 61A)
- Assisted students for 6+ hours a week in understanding coding in Python and with advanced concepts including recursion, linked lists, etc. for their projects, homework and labs

San Diego Supercomputing Center, *Predictive Analytics Intern*   June 2014 – April 2015
Project: Data Mining in Baseball
- Applied predictive analytics and data mining algorithms including k-means clustering algorithms and decision trees to baseball statistics. Analyzed and modeled the performance of an individual player and a team. Identified key areas where teams can gain an advantage over their competitors. Developed and Presented a poster and paper.
Project: SMART Grid
- Analyzed the energy consumption data in the buildings at UC San Diego to identify methods to optimize energy consumption using Minetool (data mining tool) on historical time-series data.

LEADERSHIP & VOLUNTEERING

UC Berkeley Society for Women Engineers   Sept 2015 - Present
- *Professional Development Month Head, Start-Up Expo Panel Host,* facilitated launch of a series of workshops to coach 50+ students in developing professional skills - building a Personal Brand, advanced communication, etc.

AWARDS & INTERESTS

Awards: 1st Place—2011 States DECA Conference, KLOK 1170 AM Community Service Scholarship Award
Interests: Avid Kuchipudi Dancer (25+ performances, participant in 2012 Guinness Record Performance), Piano, Yoga