SANJIV MURTHY

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EDUCATION

University of California, Berkeley   Berkeley, CA (2016–Present)
- B.A. (Data Science, Computer Science) GPA: 3.40, Domain Emphasis: Business Analytics
- Activities and Societies: Berkeley Data Science ULAB, Kappa Delta Rho, Speech and Debate

WORK EXPERIENCE

EmployToy

Data Science Intern   (May 2018 - Aug. 2018)
- Built web crawler and scraper to create a dataset of KPIs from 300 companies; performed data cleaning and designed SQL queries to create training set for predictive models.
- Performed data mining and analysis to find features to increase matching between companies and applicants.
- Developed a chatbot for teams to do their hiring on Slack, designed 8 NLP pipelines to streamline conversations and perform SQL queries based on user input using Botkit AI and Microsoft Azure platforms.

Dragon Cloud

Business Manager   (Nov. 2017 - Apr. 2018)
- Managed daily operations of web development agency, accounted company finances, collaborated directly with CEO to implement new growth strategies to increase revenue, declined offer to become owner.
- Negotiated 25 web development contracts between company contractors and clients, closed $30,000 in sales.

Lead Instructor

Code Fu: Computer Science Enrichment   (February 2017 - August 2017)
- Taught computer science fundamentals to underprivileged students in San Francisco, Oakland, and Berkeley.
- Created 10 lesson plans to help students gain a lasting and intuitive understanding to programming.

Kaiser Permanente

SYEP Intern   (June 2015 August 2015)
- Performed QA Testing for KP Preventive Care app (now My Doctor Online) with IT Team at KP Fremont.
- Created a platform for disadvantaged patients (e.g. language barrier, physical disability) to learn how to schedule video conferencing appointments, refill prescriptions, view lab results, get personal care information.
- Recommended UI improvements to app after polling patients which led to complete app redesign.

PROJECTS

NYC Taxi Ride Prediction *(Kaggle Data Science Competition)*   (December 2018)
- Data Science research competition finishing in the top 15% of 832 teams in model accuracy.
- Uses NYC Taxi Ride Dataset to predict ride duration given external weather and accident datasets.
- Generated visualizations, did feature engineering, modeled with sklearn data pipelines to create the model.

Hot Hands Effect in NBA Basketball   (October 2018)
- Used Golden State Warriors shot data to calculate the Tversky statistic (a type of conditional probability) for Klay Thompson.
- Created bootstrap replicates to test null hypothesis that Klay has a higher chance of scoring when "on fire".
- Did cleaning, created visualization, and created data pipeline using Pandas, Numpy, Matplotlib, Seaborn.

BearMaps   (April 2018)
- Designed and implemented backend of a web mapping application of Berkeley (similar to Google Maps).
- Handles place searching, displaying map, zooming in/out, finding shortest path between 2 locations.
- Uses OpenStreetMap dataset, A* Algorithm, implemented through Java and Apache Maven.

ABOUT ME

Skills
- Python, Java, Git, SQL, Data Structures, Data Visualization, Statistics, Data Modeling, Azure, UI/UX, Pandas, Numpy, Seaborn, Sci-Kit Learn, Jupyter, Spark, Photoshop, Communication.