Arjun Sripathy

arjunsripathy@berkeley.edu | (408) 621-9853 | linkedin.com/in/arjunsripathy | github.com/arjunsripathy

Summary:
Passionate about exploring the intersection of computer science, mathematics, and data science.

Education

- **UC Berkeley** EECS Major, Regents and Chancellor's Scholar   (2018 - present)
  - Current technical courses: CS 61A, EE 16A, Math 53
  - Student Organizations: Machine Learning @ Berkeley, RCSA Web Dev Committee
- **Cupertino High School** UW GPA: 4.0, SAT: 1590/1600   (2014 - 2018)
  - Completed Coursera course on Neural Networks for Machine Learning.
  - Stanford Mathematics Camp, Program II: Algebraic Topology.   (4 weeks, 2017)
  - MIT Launch Summer Entrepreneurship Program.   (4 weeks, 2016)

Projects

- **Intuit Text Summarization Consulting Project | Machine Learning @ Berkeley**
  - Creating ML model which can generate summaries for Intuit's internal documents
  - Working on project along with group of peers through Machine Learning @ Berkeley
  - Implementing extractive and abstractive summarization models based upon literature review
- **English Text Generation using Recurrent Neural Networks and LSTM's**
  - Programmed RNN architecture and backpropagation before using Tensorflow to create LSTM
  - Approximated probability distribution of next character in sequence based on context
  - Generated words and sentences which displayed semantic and syntactic knowledge of the model
- **Image Classification using Convolutional Neural Networks**
  - Implemented own CNN architecture and backpropagation on MNIST (image dataset of digits)
  - Used Tensorflow to build a deeper network utilizing a more complex image dataset (CIFAR-10)
- **Breast Cancer Diagnosis based on various numerical nuclear features**
  - Programmed numerous popular classical ML algorithms from scratch
    - Decision Tree, Feed-forward neural network, Random Forests, etc.
  - Compared performance with rapid and effective scikit-learn implementations of similar models
- **Blob Hop (2015), Wacky Fish (2014) — games published to iOS app store**

Technical Skills

- Languages: Python | Java | Swift | Objective C | HTML/CSS
- Experience with Numpy, Tensorflow, scikit-learn, pandas, NLTK and other Python DS modules
- Self-learned commonly used data structures, algorithms, and logical problem solving techniques

Awards

- 2017 USA Math Olympiad Qualifier and 2016 USA Junior Math Olympiad Qualifier
- Eagle Scout with Silver Palm
- High School Gold Awards in Pre Calculus and Algebra 2/Trig

Leadership

- Served as team leader for FIRST robotics teams. Participated in FLL(6-8), FTC (9-10), and FRC (11-12)
- Served as Senior Patrol Leader of boy scout troop as well as various other troop leadership positions