571-379-2379
akhilaananthram
asa225@cornell.edu
www.akhilaananthram.com

AKHILA ANANTHRAM

EDUCATION

Cornell University | Ithaca, NY — *Expected* May 2016
BA in Computer Science and Mathematics & M. Eng in Computer Science, GPA 3.53
Concentration: Artificial Intelligence

Thomas Jefferson High School for Science and Technology | Alexandria, VA — 2012

EXPERIENCE

Numenta | Redwood City, CA
Algorithms Intern — May – August 2015
Added features so users could customize nupic • Created a framework for NLP using HTMs • Designed a phonology encoder for letters for speech synthesis • Updated the build pipeline (*Python, C++*)

Cornell Data Science | Ithaca, NY
Education Lead — December 2014 – 2015
Organized a 5 hour crash course for 60 students • Create and lead weekly educational sessions

Blackbird Technologies | Menlo Park, CA
Artificial Intelligence Intern — May – August 2014
Found the dominant color in images with SVMs • Implemented a spatial pyramid for image classification, soft k-means for ambiguity in image classes, and an image cropper • Made a Parts of Speech tagger (*Python*)

AnthroTronix, Inc. | Silver Spring, MD
Software Engineering Intern — May – August 2013
Object detection – *NDA* • Implemented a game called Tap Tap Rehabilitation to use with the AcceleGlove • Created a version of Tetris • Wired an Arduino and programmed a controller (*Java, Matlab, Processing)*

PROJECTS

Research: Cornell Graphics and Vision Group (*Professor Kavita Bala*)

Outside: Keystroke Dynamics on Smartphones (*Python*) • EEG Classification for Seizure Prediction (*Python*) • Analysis of the Anti-Vaccine Movement through Social Media (*Python*)

In-Class: Sentiment Analysis of Rotten Tomatoes Reviews for Analyzing Box Office Revenues (*Python*) • Application of Genetic Algorithms to Procedural Image Generation (*Python, C++*) • Analysis of Phonations for Speaker Identification (*Matlab*)

RELEVANT COURSES

Algorithms • Artificial Intelligence • Machine Learning (**Teaching Assistant**) • Computer Vision (**Teaching Assistant**) • Operating Systems • Information Retrieval • Functional Programming • Computational Linguistics • Neuroscience • Mathematical Foundations for the Information Age • Applicable Algebra • Linear Algebra • Statistics
Fall '15: Software Engineering • Computational Genetics • Differential Equations • Probability

SKILLS AND INTERESTS

Programming Languages: Python • Java • C++ • Matlab/Octave • Bash Scripting • LaTeX

Other Technical: OpenCV • sklearn • NLTK • git • pandas • numpy • nupic • vim • Eclipse • JIRA

Organizations: Cornell Data Science • Math Explorer's Club • Alpha Xi Delta

References available upon request