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akhilaananthram

AKHILA ANANTHRAM

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EDUCATION

Cornell University Ithaca, NY 2012 – Present
BA in Computer Science and Mathematics, GPA 3.53
Concentration: Artificial Intelligence

Thomas Jefferson High School for Science and Technology Alexandria, VA 2008 – 2012

PROFESSIONAL EXPERIENCE

Blackbird Technologies, Menlo Park, CA Artificial Intelligence Intern May – August 2014
Detected the dominant color in an image using decision trees and color SVMs • implemented a spatial pyramid to improve image classification, soft k-means to handle ambiguity in image classes, and an auto-cropper to crop rotated images • made a Parts of Speech tagger (*Python*)

Ancient Wisdom Productions, Ithaca, NY iOS Programming Intern April – December 2013
Added features to a pre-existing application Piction • created an iOS application from scratch (*Objective C*)

AnthroTronix, Inc., Silver Spring, MD Software Engineering Intern May – August 2013
Modified an Android application • object detection – *NDA* • implemented a game called Tap Tap Rehabilitation to use with a stroke glove • created a version of Tetris for the Makey Makey • wired an Arduino and programmed a GUI controller (*Java, Matlab, Processing*)

TEACHING EXPERIENCE

Cornell Data Science Education Lead December 2014 – Present
Organized a 5 hour crash course for 60 students • lead weekly educational sessions on cutting edge skills

CS 4760, Introduction to Computer Vision Teaching Assistant January 2015 – Present
Hold weekly office hours • grade the exams and homework assignments • monitor Piazza (an online forum) and answer questions • ported projects from C++ to Python (*Professor Kavita Bala*)

MATH 1110, Calculus I Course Assistant August – December 2013
Graded homework • held weekly study sessions to help students with their classwork (*Professor Daina Taimina*)

PROJECTS

Outside: Keystroke Dynamics on Smartphones (*Python*) • Application of Genetic Algorithms to Procedural Image Generation (*Python, C++*) • EEG Classification for Seizure Prediction (*Python*)

In-Class: Sentiment Analysis of Rotten Tomatoes Reviews for Analyzing Box Office Revenues (*Python*) • Analysis of Phonations for Speaker Identification (*Matlab*)

RELEVANT COURSE WORK

Algorithms • Artificial Intelligence • Machine Learning • Operating Systems • Information Retrieval • Functional Programming • Computational Linguistics • Mathematical Foundations for the Information Age • Applicable Algebra • Linear Algebra • Statistics

Fall '15: Software Engineering • Optimization • Differential Equations • Probability

SKILLS AND INTERESTS

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

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

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

References available upon request