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AKHILA ANANTHRAM

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 • incorporated PCA into the pipeline • made a parts of speech tagger (*Python, bash scripts, JSON, OpenCV, NumPy, NLTK, sklearn, sktrain*)

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 • detected objects in images using computer vision – *NDA* • implemented a game called Tap Tap Rehabilitation to use with a stroke glove • created a version of Tetris to use with a Makey Makey • wired an Arduino and programmed a GUI to change the color of an LED board connected to the microcontroller (*Java, Matlab, Python, OpenCV, Processing*)

TEACHING EXPERIENCE

CS 4760, Introduction to Computer Vision Teaching Assistant   January 2015 – Present
Hold weekly office hours • grade the exam and homework assignments • monitor Piazza (an online forum) and answer questions • assist with project development for a course that uses C++ (*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: Application of Genetic Algorithms to Procedural Image Generation (*Python, C++, OpenCV, NumPy*) • EEG Classification for Seizure Prediction (*Python, sklearn, NumPy*)

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

RELEVANT COURSE WORK

Artificial Intelligence • Practicum in Artificial Intelligence • Machine Learning • Operating Systems • Information Retrieval • Computer System Organization and Programming • Functional Programming • Discrete Structures • Object Oriented Programming and Data Structures • Mathematical Foundations for the Information Age • Applicable Algebra • Linear Algebra • Computational Linguistics

Current Courses: Algorithms • Statistics • Natural Language Processing • Machine Learning for Data Science • Seminar in Artificial Intelligence

SKILLS AND INTERESTS

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

Other Technical: OpenCV • sklearn • NLTK • Git • NumPy • Vim • Eclipse • JIRA

Organizations: Data Science Club (*Vice President of Education*) • Alpha Xi Delta

References available upon request