Akul Gupta

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Education

BS Computer Science: University of California, Santa Cruz (graduating spring 2020)

GPA: **3.9**, Dean's Honors

Skills

Course Work: Machine Learning (graduate class), Artificial Intelligence, Operating Systems, Computer Security, Algorithms

Proficient in **C++, Python** , C, Haskell, Prolog, Scala, Java

Toolkits: Opencv, Tensorflow, Matlab, Scikit-learn, Pandas

github: https://github.com/Agupta00/projects_

Work History

AI Researcher
2019 - Current

UCSC - Narges Norouzi's Lab

Researcher at Professor Norouzi's lab. Working on developing a hierarchal/compositional model based on current findings of cognitive neuroscience, analogous to the brain circuits of the visual cortex. Key goals revolve around generalization across various domains and **invariant/one-shot learning**. I used python and openCV to implement the model.

Code and abstract: https://github.com/Agupta00/invariant

Intern
Summer 2017

UCSB - Natural Language Processing Lab

I worked in Professor William Wang's lab to visualize different parts of knowledge graphs (representations of an entity and its relationship to other entities).

Additionally, I partook on research regarding entity linking (an important task in building knowledge bases in **NLP**). I studied novel approaches to the problem and implemented and improved on these current models for entity linking tasks.

Developer
2015 - 2016

Human Project

I conceived the idea for a better home security system due to a lack of current solutions on the market based on my first hand experience of being robbed.

Current security systems on market are not intelligent. I developed a prototype for a smart security system in the form of an intelligent camera, utilizing the latest algorithms and open source code. I utilized **OpenCV** and Animetrics libraries to guard the house and detect anomalies attributed towards break ins.

*selflearningcamera.blogspot.com

Intern
Summer 2016

Nanosec

Nanosec is a stealth mode startup which is currently developing a cutting edge algorithm for securing applications in the cloud. I worked with the CEO of the company to design the web pages and content for the website.

*http://nanosec.io