Kartikeya Upasani

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EDUCATION

COLUMBIA UNIVERSITY
MS in Computer Science
Dec 2017 (expected)
GPA: 3.83

IIT INDORE
B.Tech in Computer Science
June 2016
GPA: 8.79 / 10.0

COURSEWORK

GRADUATE
Machine Learning
NLP
Deep Learning for Computer Vision
Advanced Algorithms
Cloud Computing and Big Data

UNDERGRADUATE
Artificial Intelligence
Soft Computing
Operating Systems
Parallel Computing
Embedded Systems
Reliability Engineering

SKILLS

PROGRAMMING
Python • Java
JavaScript • Matlab

OTHER
Theano • Keras
MySQL • LaTeX

ACQUAINTED
C • C++ • PHP
Android SDK

TEACHING ASSISTANTSHIP

COMS4121: Computer Systems for Big Data (Spring 2017, Columbia University)

WORK EXPERIENCE

CISCO | Software Engineering Intern
May 2015 – Aug 2015 | Bangalore, India

- Developed a Python tool 'Parsely' for easy parsing of router console output of multiple formats. Responsible for packaging, supporting and maintaining unit tests for the tool.
- Built tools around 'Parsely' to automate router health validation operations.
- 'Parsely' is being used by several teams at Cisco today.

NECTAR GLOBE | Software Engineering Intern
May 2014 – Aug 2014 | Mumbai, India

- Developed an Android application for enterprises to manage scanning, organizing, and sharing of official documents from smartphones.

PROJECTS

HISTORY LAB: NAMED ENTITY RECOGNITION
Jan 2017 – present | Columbia University

- Responsible for unambiguous recognition of entities in declassified US government cables and documents using Java and Stanford's Core-NLP library.

THREATSIM: RL TO RESOLVE THREATS
Sept 2016 – Dec 2016 | CCLS, Columbia University

- Used reinforcement learning (RL) to train a manager-agent on simulation of a manufacturing industry to detect undesirable scenarios and find the optimal policy to resolve them.
- Used Python to build a multi-threaded simulation model, and Theano to implement the policy network.

CLAW4TWITTER: TWITTER ANALYTICS AND FAKE NEWS DETECTION
Sept 2016 – Dec 2016 | Columbia University

- Developed a Chrome extension that hacks into Twitter.com to recommend hashtags, show sentiment & popularity of entities as user composes a tweet.
- Used a human moderator + collaborative filtering approach to mark tweets as fake or malicious.
- Deployed backend on a scalable Python (Django) server using AWS Elastic Beanstalk and Elasticsearch.
- The extension is available for download at Chrome Store.

INDUSTRY SMARTWARE
Dec 2014 – June 2016 | IIT Indore, India

- Developed distributed (Java) software, industry simulation & genetic algorithm for better data collection and data-dependent decision-making in manufacturing industries.
- Prepared proposals and made presentations for funding.
- Wrote 1 journal publication (first author), have 1 journal paper in review (first author), and 1 Indian Patent application in review (co-PI).
- Secured funding (INR 100,000 + GBP 50,000) and collaboration with Cambridge University, won Best Working Prototype Award at Student Research Symposium 2016, IIT Indore.

NON-ACADEMIC

Student Council President (IITI, 2014-15) • Table tennis team (IITI, 2012-2014) • Soccer team (IITI, 2013) • Model UN team (IITI, 2012)