

Kartikeya Upasani

k.upasani@columbia.edu | +1 732 402 4697

EDUCATION

COLUMBIA UNIVERSITY

MS IN COMPUTER SCIENCE

Dec 2017 (expected)

GPA: 3.96

IIT INDORE

B.TECH IN COMPUTER SCIENCE

June 2016

GPA: 8.79 / 10.0

COURSEWORK

GRADUATE

Deep Learning

NLP

Machine Learning

Advanced Algorithms

Cloud Computing and Big Data

UNDERGRADUATE

Artificial Intelligence

Soft Computing

Operating Systems

Parallel Computing

Embedded Systems

Reliability Engineering

SKILLS

PROGRAMMING

Python • Java

C++11 • PHP

JavaScript • Matlab

OTHER

Theano • Keras

MySQL • \LaTeX

ACQUAINTED

C • Android SDK

TEACHING

ASSISTANTSHIP

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

WORK EXPERIENCE

FACEBOOK | SOFTWARE ENGINEERING INTERN

May – Aug 2017 | Menlo Park, USA

- Worked on Voice Commands (ex: Hey Oculus, find racing games) and Speech Recognition.
- Did back-end infrastructure and front-end work involving C++11, Hack (PHP), ReactJS, and JavaScript ES6.

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.

PROJECTS

HISTORY LAB: NAMED ENTITY RECOGNITION

Jan – May 2017 | Columbia University

- Worked on recognition and disambiguation of named entities in declassified US government cables for efficient searching and organization.
- Built the system using AWS, Java, and Stanford's Core-NLP library.

THREATSIM: REINFORCEMENT LEARNING TO RESOLVE THREATS

Sept – Dec 2016 | CCLS, Columbia University

- Trained an AI agent for manufacturing industry to detect undesirable scenarios and find the optimal scheduling policy to mitigate them.
- Used Python to build a multi-threaded simulation model of industry, and Theano to implement a deep neural network for the agent.

CLAW4TWITTER: TWITTER ANALYTICS AND FAKE NEWS DETECTION

Sept – Dec 2016 | Columbia University

- Developed a Chrome extension that hacks into Twitter.com to provide utilities such as hashtag recommendation, sentiment & popularity prediction as user composes a tweet. The extension is available for download on Chrome Store.
- Injected buttons into every tweet in feed to mark tweets as fake or malicious.
- Deployed using JavaScript, Python (Django) server on AWS Elastic Beanstalk with Elasticsearch.

INDUSTRY SMARTWARE

Dec – June 2016 | IIT Indore, India

- Developed algorithm for scheduling in manufacturing industries, deployed in a distributed (Java) software, with industry simulation for better data collection and data-dependent decision-making.
- Wrote 1 journal publication (first author), have 1 journal paper in review (first author), and 1 Indian Patent application in review (co-PI).
- Prepared proposals and made presentations for funding. 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.

EXTRA-CURRICULAR

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