

# Kartikeya Upasani

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## EDUCATION:

**Columbia University, New York:** MS in Computer Science Sept 2016 - Dec 2017 (expected)  
Machine Learning track.

**Indian Institute of Technology (IIT) Indore, India:** B.Tech in Computer Science July 2012 - June 2016  
CGPA: 8.79/10.0, Last two years' GPA: 9.38/10.0  
Courses: Artificial Intelligence, Soft Computing, Database & Info Systems, Software Engineering, Operating Systems

## TECH SKILLS

Java, Python, C, C++, MySQL, Javascript, CSS, MATLAB, Android SDK, PHP, Prolog, Scheme

## INDUSTRY SMARTWARE PROJECT

Dec 2014 - July 2016

*industrysmartware.com*

- Designed distributed algorithms for multi-agent systems, simulation using probabilistic models, developed industry-ready Java software, 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 (100,000 INR + GBP 50,000) and collaboration (Cambridge University), won Best Working Prototype Award, Student Research Symposium 2016, IIT Indore, for the work.

## WORK EXPERIENCE:

*Cisco, Bangalore (Software Development Intern)* May 2015 - July 2015

- Developed a Python tool 'Parsely' to parse router console outputs and automatically perform common validation operations.
- Packaged, distributed and supported the tool; maintained documentation and unit tests; delivered additional features on demand of users. Parsely is being used by several testing teams at Cisco today.

*Nectar Globe Technology Solutions, Mumbai (Software Development Intern)* May 2014 - July 2014

- Developed an Android app and web portal intended for enterprises to manage official photos and scans.
- Technologies used: Java, Android SDK, MySQL, PHP.

## SELECTED PROJECTS:

- Built an AI bot player (Java) for popular game Flappy Bird using Neuroevolution.
- Used Self Organizing Maps to visualize N-dimensional data in 2D (Javascript).
- Developed a recommender system using SVM to recommend ideal career paths to students (C++).
- Developed an Android app to store (MySQL) mobile network strength data across locations and operators and perform analysis (PHP).
- Developed an Algorithmic Trading bot (C++) that uses blackbox optimization for USD-Euro trading.

## OTHER:

- Met with the President of India (Jun 2016) – Nominated to spend one week at the Rashtrapati Bhavan (Indian Presidential Palace) as a part of the In-Residence Programme, June 2016.
- Elected as the President of Student Gymkhana (Student Council), 2014-15, IIT Indore.
- Part of IIT Indore's soccer (2013) and table tennis (2012-2014) teams.