

# Kartikeya Upasani

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## Education:

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

*Indian Institute of Technology (IIT) Indore, India:* B.Tech in Computer Science and Engineering  
July 2012 - June 2016  
CGPA: 8.79/10.0, Last two years' GPA: 9.38/10.0

**Tech Skills:** Java, C, C++, Python, MATLAB, MySQL, Android SDK, PHP, Prolog, Scheme.

## Industry Smartware (Dec 2014 - July 2016):

- Worked in team of 3 on a smart manufacturing project that attempts to redefine operations planning in manufacturing industries using Cyber-Physical Systems and Internet of Things.
- Role: Designing distributed algorithms for multi-agent systems, combinatorial optimization, developing industry-ready Java software, preparing proposals and making 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).
- Awarded funding from Dept. of Science & Technology, Govt. of India, and from Royal Academy of Engineering, London.
- Secured collaboration with Cambridge University, UK for further work; and with AVTEC Ltd., India for industrial implementation.
- Won the Best Working Prototype Award, Student Research Symposium 2016, IIT Indore.

## Other projects:

- *Network Strength Monitor (Android, PHP, MySQL)*- Android app to determine the best coverage across locations for various network operators.
- *Career Genie (C++)*- Using machine learning to recommend ideal career paths to students based on their profile and interests.
- *Algorithmic Trading (C++)*- Blackbox optimization to maximize profit on USD-Euro trading.

## 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.

## Achievements:

- 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.
- Received the Best Outgoing Student Award from High School (2010) for overall excellence in academics and extracurricular activities.