

Ayush PATWARI

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EDUCATION

MAY 2017 MS in COMPUTER SCIENCE, **Purdue University**, US | GPA: 4.0/4.0
MAY 2013 B.Tech(Hons.) in CSE, **IIT Kharagpur**, India | GPA: 9.09/10.0

WORK EXPERIENCE

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| Current
AUG 2015 | Graduate Research Assistant at DCSL LAB, PURDUE UNIVERSITY, US
<i>Detecting False Data in Crowd-Sourced Systems</i> Advisor: Prof. Saurabh BAGCHI <ul style="list-style-type: none">• Automated Fact-Checking Using Natural Language Processing to automatically detect misleading statements in political campaigns.• Spam Detection in Web Forums Modelled inter-relations between users, groups and threads and created a semi-supervised iterative framework to detect spam posts.• Spam Video Detection in Video Portals Used supervised learning techniques to detect spam videos with misleading meta-data in Youtube achieving a F-score of 0.84. |
| JUN 2016 - AUG 2016 | Summer Intern at LAWRENCE LIVERMORE NATIONAL LABORATORY, CA, US
<i>Understanding DRAM Errors in HPC Clusters</i> Mentor: Ignacio LAGUNA
Study on spatial correlation of soft memory errors in High Performance Computing clusters. Used statistical tests to show that observed errors occur in groups across the physical layout and these are not due to a random distribution. |
| JUL 2013 - JUL 2015 | Software Engineer in Research at SAMSUNG R&D INSTITUTE, India
<i>Multi-Modal Sensor Data Analytics</i> <ul style="list-style-type: none">• Tennis Performance App Developed a learning framework on streaming sensor data to allow comparison with experts and peers to improve skills and playing technique.• Indoor Floor Map Generation Developed a system to generate indoor floor maps using a single smartphone, fusing acoustic signal processing and dead reckoning system. |
| MAY 2012 - JULY 2012 | Summer Intern at LCA LAB, EPFL, Switzerland
<i>Location Privacy Intrusion of Mobile Apps</i> Advisor: Prof. Jean-Pierre HUBAUX
Developed a web monitoring tool to analyze location access history of Qt applications in Nokia to determine the extent of privacy leaks. |

PUBLICATIONS

- [Efficient characterization of tennis shots and game analysis using wearable sensors data](#), *SENSORS*, 2015 [IEEE](#) Srivastava, R., Patwari, A., Kumar, S., Mishra, G., Kaligounder, L., and Sinha P
- [Method and Device for Generating Data Representing Structure of Room](#)
Patwari, A., Mishra, G., Srivastava, R., De, A., and Patkar, D. (United States Patent Application 20150347638)
- [TennisTrac App for Samsung Galaxy devices for use with Gear watch](#) (<http://tinyurl.com/tennistraq>)
- Method and system for video-analysis assisted sensor-data based ball-striking-device head speed estimation
Indoria, S., Patwari, A., and Sinha, P. (India Patent App. 3927/CHE/2014)

PROGRAMMING SKILLS

Proficient: PYTHON, C, C++
Intermediate: JAVA, SCALA, ANDROID, SQL, JAVASCRIPT, HTML
Tools: SCIKIT-LEARN, MATPLOTLIB, FLASK

GRADUATE COURSEWORK

FAULT TOLERANT DESIGN, OPERATING SYSTEMS, ALGORITHMS
MACHINE LEARNING AND NATURAL LANGUAGE PROCOESSING
INFORMATION SECURITY, COMPILER SYSTEMS AND PROGRAMMING
LANGUAGES (SCALA)

OTHER PROJECTS

- [Meta-Search .Net Application for Academic Scholars and Citations](#), Opensoft Competition, IIT Kharagpur, 2013
- Study on Routing in Delay Tolerant Network using Omni-Directional Antennae, IIT Kharagpur, Dec-Jan 2011
- Implemented paging support for the XINU operating system on the Intel architecture. [See on Github](#)