

Ayush PATWARI

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EDUCATION

MAY 2017 MS(Thesis) 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

AUG 2017 –	Software Engineer at GOOGLE INC. , US
Current AUG 2015	<p>Graduate Research Assistant at DCSL LAB, PURDUE UNIVERSITY, US</p> <p><i>Detecting False Data in Crowd-Sourced Systems</i> sklearn, nltk, flask, scrapy</p> <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	<p>Summer Intern at LAWRENCE LIVERMORE NATIONAL LABORATORY, CA, US</p> <p><i>Understanding DRAM Errors in HPC Clusters</i> python, sklearn, matplotlib</p> <ul style="list-style-type: none">• Build a visualization tool to study spatial correlation of DRAM correctable memory errors in High Performance Computing clusters over different time slices.• Define metrics for and used hypotheses testing 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	<p>Software Engineer at SAMSUNG R&D INSTITUTE, India</p> <p><i>Multi-Modal Sensor Data Analytics</i> android sdk, c++, weka</p> <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	<p>Summer Intern at LCA LAB, EPFL, Switzerland</p> <p><i>Location Privacy Intrusion of Mobile Apps</i> Qt sdk, html, js, css</p> <p>Developed a web monitoring tool to analyze location access history of Qt applications in Nokia to determine the extent of privacy leaks.</p>

PUBLICATIONS & PATENTS

- [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>)

PROGRAMMING SKILLS

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

GRADUATE COURSEWORK

FAULT TOLERANT DESIGN, OPERATING SYSTEMS, ALGORITHMS
MACHINE LEARNING AND NATURAL LANGUAGE PROCESSING
INFORMATION SECURITY, COMPILER SYSTEMS IN SCALA

OTHER PROJECTS [HTTPS://GITHUB.COM/PATWARIA](https://github.com/patwaria)

- Implemented paging support for the XINU operating system on the Intel architecture, OS Project, Fall 2015
- Stance Classification for Ideological debates, NLP Project, Spring 2016
- Parts-of-Speech Tagger for Tweets using Structured Perceptron and MEMM models, NLP Project, Spring 2016
- 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