

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 Graduate Research Assistant at **DCSL LAB, PURDUE UNIVERSITY**, US
Detecting False Data in Crowd-Sourced Systems | sklearn, nltk, flask, scrapy
- **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
Understanding DRAM Errors in HPC Clusters | python, sklearn, matplotlib
- 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 Software Engineer at **SAMSUNG R&D INSTITUTE**, India
Multi-Modal Sensor Data Analytics | android sdk, c++, weka
- **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
Location Privacy Intrusion of Mobile Apps | Qt sdk, html, js, css
Developed a web monitoring tool to analyze location access history of Qt applications in Nokia to determine the extent of privacy leaks.

PUBLICATIONS & PATENTS

- [Understanding the Spatial Characteristics of DRAM Errors in HPC Clusters, FTXS'17, HPDC, Washington DC](#)
Patwari, A., Laguna I., Schulz M. and Bagchi S.
- [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 \(<http://tinyurl.com/tennistrac>\)](#)

PROGRAMMING SKILLS

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

GRADUATE COURSEWORK

MACHINE LEARNING/NLP, DATA MINING
PARALLEL COMPUTING, FAULT TOLERANT DESIGN, ALGORITHMS
INFORMATION SECURITY, COMPILER DESIGN, OPERATING SYSTEMS

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