

Sonu Gupta, M.Tech.

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Experience

- 2017 – 📌 **Research Associate.** IIIT-Delhi at Precog Labs under Prof. Ponnurangam Kumaraguru (PK) (Full-time position June 2017–Present)
- 2014 – 2014 📌 **Android Application Developer.** Internship at Let Me Know. (July 2014–August 2014)
- 📌 **Android Application Developer.** Training at HPES (June 2014–July 2014)

Education

- 2015 – 2017 📌 **M.Tech., JIIT, Noida** in Information Security.
Thesis title: *Improving Credibility of user-generated content on Facebook.*
CGPA: 8.0/10
- 2011 – 2015 📌 **B.Tech., Govt. Women Engineering College, Ajmer** in Computer Science
First Class Honours.
CGPA: 7.99/10

Research Publications

- 2018 📌 **Gupta, S.,** Srivatsav, D., Subramanyam, A. V., and Kumaraguru, P. Attentional Road Safety Networks. arXiv preprint arXiv:1812.048460 (2018).
- 📌 **Gupta, S.,** Kumaraguru, P., and Chakraborty, T. MalReG: Detecting and Analyzing Malicious Retweeter Groups. In the ACM India Joint International Conference on Data Science and Management of Data (CoDs-COMAD), ACM.
- 📌 **Gupta, S.,** Sachdeva, S., Dewan, P. and Kumaraguru, P. CbI: Improving Credibility of User-Generated Content on Facebook. In the International Conference on Big Data Analytics (BDA), Springer.
- 📌 **Gupta, S.,** and Sachdeva, S. Invitation or Bait? Detecting Malicious URLs in Facebook Events. In the Eleventh International Conference on Contemporary Computing (IC3), IEEE.

Poster Presentations

- 2017 📌 **Gupta, S.,** Sachdeva, S., Dewan, P. and Kumaraguru, P.
Improving Credibility of User-Generated Content on Facebook.
At the 5th Security and Privacy Symposium.
- 2015 📌 **Gupta, S.,** and Gupta, A.
Devices, things and everything on Internet: where it's taking us?
At the 10th Annual Information Security Summit organized by Data Security Council of India (DSCI).

Projects

- Feb 2018 – Sep 2018 **Using Deep learning techniques to predict city-scale road safety maps from satellite imagery**
Satellite imagery captures a wealth of visual information that can be used as a proxy indicator of road safety, we aim to model and predict city scale safety.
- May 2018 – June 2018 **Satellite Imagery Classification**
A web application developed using rails to get the annotations for satellite imageries to label them as dangerous or safe. With the collected labels, we compared capability of human with DL models to assess road segments for safety.
- Jan 2018 – April 2018 **Reche**
An android application - It provides a common platform for researchers to request users to participate in the user study and other kinds of data collection. It was a group project. I did it as a part of the Designing Human-Centered Systems (DHCS) course offered by Prof. PK at IIITD.
- Aug 2016 – May 2017 **Credibility Investigator (Cbi)**
Fake news often spread rapidly in OSNs especially during news-making events. In this project, I developed a Chrome Browser Extension and a RESTful API using Flask to rank the public Facebook posts in real-time for its credibility.
- Jan 2017 – Feb 2017 **Facebook post Classification**
A web application developed using PHP and JavaScript and deployed on AWS EC2 server to get the labels from user for a post to check if the information present is accurate, clear and timely.
- Jan 2016 – May 2016 **Sentiment Analysis of Election Related Tweets**
A web application used to determine the sentiment of Tweets in real-time for a given keyword.
- July 2014 – May 2015 **Expense Manager**
An android application that extensively manages all the day to day expenses and also creates separate logs for the trip expenses.

Skills

- Languages **Strong reading, writing and speaking competencies for English and Hindi.**
- Coding **PHP, Python, C/C++ , Java**
- Databases **MySQL, MongoDB**
- Web Dev **HTML, CSS, JavaScript, Rails**
- Misc. **Docker, Flask, Git, Latex, Academic research.**

Miscellaneous Experience

- 2017 **■ Guest Lecture**, at Winter School on Data Science and Machine Learning conducted by ACM IGDTUW.
- 2016 **■ Elite + Gold Medal Certificate Award**, secured 94% in an online course *Privacy and Security in Online Social Media* conducted by IIT-Delhi on NPTEL.
- 2012 **■ Lucideus Tech Certified Ethical Hacker**, Level 1 and Level 2.
- 2009 **■ Certificate of Merit**, Secured state rank '7' and Olympiad Rank '52' in *International Olympiad of Science*.

References

1. Dr. Ponnurangam Kumaraguru (PK)
Associate Professor at IIT-Delhi
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2. Dr. Shelly Sachdeva
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