# Avijit Ghosh

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## Education

Northeastern University Boston, MA

Ph.D. in Computer Science | Advisor: Alan Mislove Indian Institute of Technology (IIT) Kharagpur

2019 - Present Kharaqpur, India

B.Tech. in Chemical Engineering, M.Tech in Financial Engineering, Minor in Computer Science

2014 - 2019

# Experience.

Northeastern University

Boston, MA

Research Assistant at Khoury College of Computer Sciences

Sep 2019 - Present

- · Research interests: Social Networks, Algorithmic Auditing, Machine Learning, Human Computer Interaction, Usable Privacy.
- · Study of advertiser behavior and targeting patterns on Facebook.
- Investigated the ad reach information obtained from Facebook's ad transparency feature and the personal targeting dataset from Propublica's Facebook ad dataset, aided with controlled ad placement experiments. Findings published at IEEE ConPro 2019.

#### LIG, University of Grenoble Alps

Grenoble, France

Visiting Researcher

May 2019 - July 2019

 Study of how news companies promote different items on social media, investigating possible patterns of differential information spreading using both posts and ads. Preparing a manuscript to be submitted at WWW'20.

Xerox Research Centre Bangalore, India

Research Intern May 2017 - July 2017

- Implemented XTrack, a Smart Vehicle Tracking and Battery usage minimizing Algorithm, using BLE to distribute GPS information.
- Uber Surge Price Prediction using Spatio-Temporal techniques like the Neural Hawkes and Recurrent Marked Temporal Point Process.
   Was awarded the title of Best Internship Project.

Google Summer of Code

GSoC Student at OpenMRS

Apr 2016 - Aug 2016

Remote

 Replaced the HTML XForms system used in the OpemMRS android client with native generated forms using the Forms REST Api and added offline form saving. Configured Travis CI to automatically build and push the apk to play store. Contributed 100K lines of code.

IIT Kharagpur

Kharagpur, India

Undergraduate Researcher

2014 - 2019

Undergraduate Researcher
Vector space representation of organic molecules to predict aqueous solubility using deep learning techniques.

- A test of Space representation of organic molecules to predict aqueous solubility using deep learning technique
- · Automated Extraction of Catchwords from Legal Documents using a novel NER based tagger.
- $\cdot \ \, \text{Automatically position user comments against relevant news article paragraphs. Presented at ECIR 2019.}$
- Data Driven Disaster Response Systems using Social Media (at the CNERG Lab):
  - Project: Savitr Realtime location extraction during emergencies, published at WWW-SMERP 2018.
  - Project: Classification and Summarization of tweets during a disaster event, presented at IBM Day 2016.

## **Publications**.

Analyzing Political Advertisers' Use of Facebook's Targeting Features

Conpro '19

Avijit Ghosh, Giridhari Venkatadri, Alan Mislove

San Francisco, California

Public Sphere 2.0: Targeted Commenting in Online News Media

ECIR '19

Andrew Adultinia Commercial & District Double & Adultinia Charles & Abbiliana Charles

Cologne, Germany

Ankan Mullick, Sayan Ghosh\*, Ritam Dutt\*, Avijit Ghosh\*, Abhijnan Chakrabarty \*equal contribution

SAVITR: A System for Real-time Location Extraction from Microblogs during Emergencies

WWW-SMERP '18

Ritam Dutt, Kaustubh Hiware, Avijit Ghosh, Rameshwar Bhaskaran

Lyon, France

Molecule2Vec: Vector Space Representation of Organic Molecules for prediction of properties

EUCHEMS '18

using Deep Neural networks

Liverpool, UK

Avijit Ghosh, Debasis Sarkar

WebSelect: A Research Prototype for Optimizing Ad Exposures based on Network Structure

WITS '16

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Avijit Ghosh, Agam Gupta, Divya Sharma, Uttam Sarkar

Dublin, Ireland

### Awards & Grants

2019 **Winner**, Best Poster Award

\_\_\_\_\_ ECIR'19

2019 **Winner**, Institute Order of Merit - Technology

IIT Kharagpur

2018 Winner, SGSIS Institute Challenge Grant - Worth INR 1 Million

IIT Kharagpur

Skills

Languages

Python, Java, C, R, Bash, SQL, HTML/CSS, JavaScript, Matlab

Frameworks

Git, Travis, Keras, TensorFlow, Docker, Android

September 17, 2019