Avijit Ghosh

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Education .

Northeastern University Boston, MA

Ph.D. candidate in Computer Science | Advisor: Alan Mislove

Indian Institute of Technology (IIT) Kharagpur

Kharagpur, India

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

2014 - 2019

2019 - Present

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.
- · Investigated the ad reach and spend 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.
- · Demonstrated that advertisers with higher budgets use more privacy sensitive targeting techniques like PII or Lookalike audience than low budget advertisers. Findings published and presented 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.

Came up with an idea for Uber-like Surge Price Prediction using Spatio-Temporal techniques like the Neural Hawkes and Recurrent Marked Temporal Point Process. Awarded the title of Best Internship Project.

Google Summer of Code Remote

GSoC Student at OpenMRS

Apr 2016 - Aug 2016

- · OpenMRS is an Opensource Medical Record System geared towards developing countries. I replaced the HTML XForms system used in the OpenMRS 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. Overall, contributed 100K lines of code.

IIT Kharagpur Kharagpur, India

Undergraduate Researcher

2014 - 2019

- · Vector space representation of organic molecules to predict aqueous solubility using deep learning techniques.
- · Automated Extraction of Catchwords from Legal Documents using a novel NER based tagger.
- · 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

Ankan Mullick, Sayan Ghosh*, Ritam Dutt*, Avijit Ghosh*, Abhijnan Chakrabarty

Cologne, Germany

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

Avijit Ghosh, Agam Gupta, Divya Sharma, Uttam Sarkar

Dublin, Ireland

Awards & Grants_

Winner, Best Poster Award

ECIR'19

Winner, Institute Order of Merit - Technology 2019

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 18, 2019