Avijit Ghosh

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Social Networks | Algorithm Auditing | Natural Language Processing | Human Computer Interaction | Usable Privacy

Education

Northeastern University

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

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

Boston, MA 2019 - Present

Kharagpur, India

2014 - 2019

Experience

Northeastern University

Boston, MA

Research Assistant at Khoury College of Computer Sciences

Sep 2019 - Present

- · 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.

· Proposed a method 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

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 (accurate upto 0.78 R²) using deep learning techniques.
- · Automated Extraction of Catchwords from Legal Documents using a novel NER based tagger to help categorize lengthy legal texts.
- · 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 A realtime location extraction system for disaster management using twitter. Presented 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 *equal contribution

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 using

EUCHEMS '18

Deep Neural networks [oral abstract]

Liverpool, UK

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_

Avijit Ghosh, Debasis Sarkar

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 Kharaqpur

Skills

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

Git, Travis, Keras, TensorFlow, Docker, Android Frameworks

September 23, 2019