

Kaustav Bhattacharjee

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Publications

Bhattacharjee, Kaustav, Min Chen, and Aritra Dasgupta. "Privacy-Preserving Data Visualization: Reflections on the State of the Art and Research Opportunities." *STAR* 39.3 (2020) (DOI: 10.1111/cgf.14032)

- Focuses on the systemic analysis of the approaches, methods and techniques used for handling data privacy in visualization
- Identifies the gaps and the future research opportunities in this area

Professional Skills

- Python, Jupyter, Gephi, Neo4j, R (*Data Analysis & Graph Mining*)
- Tableau, D3.js, Plotly, Dash, Axure (*Data Visualization*)
- NLTK, TextBlob, Flair, sklearn, tf-idf, LSTM, t-SNE, Numpy, Pandas (*Machine Learning*)
- HTML, CSS, JavaScript, Docker, Flask, React.js, Material UI (MUI), REST API, Git, Postman, Heroku, MySQL, Postgres, SQLAlchemy (Web & API Development)
- Selenium, AWS EC2, AWS Route 53, Twilio (*Web Mining and Automation*)
- Security Information & Event Management(SIEM) Administration, Implementation and Design using *HPE ArcSight*
- Malware Detection and Primary Analysis with tools like *x64Dbg, CEF Explorer, Regshot* etc.
- Also trained in Big Data Analytics with Hadoop and Map Reduce and interested in Blockchain technologies. Developed Ethereum Smart Contracts.

Education

- Pursuing **PhD** (2nd Year) in Information Systems from New Jersey Institute of Technology (NJIT) with GPA 3.93/4.0 (2019 - Present)
 - Courses: Data Visualization (IS 698), Machine Learning (CS 675), Data Analytics (IS 665), Social Media (IS 735), Web Systems Development (IS 601), User Experience Design (IS 661) and others
- Completed **B.Tech** in Information Technology from Institute of Engineering & Management with DGPA 9.13/10 (2012 - 2016)
 - Courses: Database Management System (IT601), Cloud Computing (IT704B), Computer Networking (IT692), Software Engineering (IT 693) and others

Professional Experience

New Jersey Institute of Technology (NJIT)
Teaching Assistant (TA)

August 2019 To Present

Courses:

- IS 117 : Introduction to Website Development, Spring 2020 (30 students)
- IS 218: Building Web Applications, Spring 2021 (30 students)
- IS 219: Advanced Website Development, Spring 2020 (30 students)
- IS 601: Web Systems Development, Summer 2020 (20 students), Fall 2020 and Spring 2021 (60 students)
- IS 690: Web Services and Middleware, Summer 2020 (20 students)

Other Responsibilities:

- Developed an interface in **React and D3.js** in order to demonstrate the interpretability of different Machine learning models like Random Forest, Co-ordinate Ascent, LambdaMART, Lambda Rank and others.
- Developing a pipeline to find datasets from open data portal, process them using a **Flask API** and ascertain the leak of sensitive information, if any.
- Improved a **visual analytics** platform which helps understand the correlation between different metrics, models and variables of various datasets related to climate science.
- Developed an interactive **dashboard** in order to identify how **energy consumption** varies across different weather conditions, home appliances and different time parameters using relevant datasets.
- Performed multiple **Machine Learning projects** for spam email detection, product sales prediction, cancer detection using feature extraction and others
- Developed a **web crawler** in R which crawled and indexed web pages based on certain topic keywords.
- Authored several Medium posts about **data collection** through social media websites like Twitter and reddit and relevant data analysis and network analysis (<https://kaustavbhattacharjee.medium.com/>)

PricewaterhouseCoopers Private Limited (PwC)
Consultant, Cyber Security
Senior Analyst, Cyber Security

August 2016 To August 2019
(April 2018 to August 2019)
(August 2016 to March 2018)

Responsibilities:

- Worked in **Managed Security Services (MSS)** projects for banking, pharmaceutical and mining clients, focussing on detection and analysis of different security incidents related to firewalls, antivirus, servers, along with availability monitoring and anti-virus and patch compliance monitoring.
- Worked successfully as a Security Information and Event Management (**SIEM**) **Administrator** (HPE ArcSight), responsible for maintaining client's SIEM appliance by ensuring that all SIEM deployment devices are working properly, efficiently and with desired performance.
- Responsible for **device integration** with SIEM for different clients during the on-boarding process along with the creation of different use cases, filters, dashboards etc.
- Completed a project to set up incident monitoring lifecycle using **RSA Archer SecOps** module and provided training to other analysts in order to provide complete incident management through this tool.
- Completed a project to set up **malware analysis lab**, provisioned to focus on malware detection, analysis and to provide first response to malware outbreaks. Proficient in tools like OllyDbg, x64Dbg, CEF Explorer, PEid, Strings64, Regshot, Trid32 etc.
- Worked on the development and management of the proprietary **Global Threat Intelligence Platform** of the employer firm along with the deployment of Honeypot servers and baits in the network.
- Successfully implemented the **Malware Information Sharing Platform (MISP)** in the network in order to gather malware and other threat information from the massive open threat sharing community.
- Completed a project to implement a **visualization dashboard** for client management stakeholders, using SQL for data processing and other Web Technologies for front-end.

Analyse Technology Solutions Intern

June 2015 To July 2015

Responsibilities:

- Completed an Internship Project on analyzing Twitter Datasets, including **hashtags analysis** and **sentiment analysis**, using Map Reduce (**Java**), titled "Sentiment Analysis And Related Big Data Analyses on Huge Datasets of Tweets on Celebrities".

Certification & Awards

- Certified as HPE ArcSight Admin Analyst 6.11 and in HPE User Behavior Analytics (**UBA**).
- Completed a specialization course with New York University Tandon School of Engineering (**Coursera**) titled 'Introduction to Cyber Security', along with a specialization on Blockchain technologies from the State University of New York, Buffalo, also offered by Coursera.
- Completed a course "Introduction to Linux" (LFS101x) by **Linux Foundation** on edX .
- Awarded **Gold medal** from Tata Consultancy Services (TCS) for overall performance in both studies and co-curricular activities in the year 2016.
- Received **A.P.J. Abdul Kalam Techno-Wiz** award for excellent contribution to the annual college technical fest Innovación 2015.
- Co-authored a research paper titled "Network Intrusion Detection using Snort", accepted for oral presentation at IEEE UEMCON 2016 (#157029209)