

Bishwas Mandal

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Education

Kansas State University

Jan 2020 - Present

PhD, Computer Science (*GPA: 4.0/4.0*)
(Advisor: Dr. George Amariuca)

KL University, India

2015 - 2019

B. Tech, Computer Science (*GPA: 8.2/10*)

Publications

Sharma, C., **Mandal, B.**, & Amariuca, G. (2021). **A Practical Approach to Navigating the Tradeoff Between Privacy and Precise Utility**. In *21st Proceedings on Privacy Enhancing Technologies (PoPETs)*. (Submitted)

Mandal, B., Pradhan, A., & Swain, G. (2019, April). **Adaptive LSB substitution Steganography technique based on PVD**. In *3rd International Conference on Trends in Electronics and Informatics*. IEEE.

Shukla, U., **Mandal, B.**, Kiran, K.V.D. **Perlustration on Mobile Forensics Tools**. In *3rd International Conference on Computer Networks and Inventive Communication Technologies (ICCNCT)*. Springer. (Accepted)

Work Experience

Kansas State University

Jan 2020 - Present

Graduate Teaching/Research Assistant

- Used Machine Learning and Deep Learning Models to validate the results in Privacy Utility Trade Off Problem.
- Studied Different Privacy Metrics
- Teaching Assistant for CIS 575, Introduction to Algorithm Analysis (Spring 2020), CIS 301, Logical Foundations of Programming and CIS 560, Database Systems Concept (Fall 2020)

KL University, India

May 2018 – July 2019

Undergraduate Research Assistant

- Studied steganographic approaches & used PVD & LSB substitution technique to construct a new algorithm.
- Analyzed Data hiding method using AES encryption and Discrete Wavelet Transform based Steganography.
- Reviewed various mobile forensics tools used for different OS and identified their advantages over the other.

Info Click Private Ltd., Nepal

May 2017 – July 2017

Trainee

- Worked under Web Designing domain and concentrated on building/designing a website.

Graduate Coursework

Database Management Systems (CIS761), Formal Language Theory (CIS 770), Analysis of Algorithms (CIS 775), Deep Learning (CIS 890), Computer and Information Security (CIS 751), Research Topics (CIS 990)

Awards & Prizes

- Nepal Aid Fund Scholarship Scheme awarded by the Ministry of External Affairs, India (2016- 2019). Value: ~ US\$ 24k
- 1st Prize in Intramural Football Competition organized by K L University

Computer Skills

- Languages: Python, MATLAB, JavaScript, HTML, CSS, MySQL, (C, Java: Basic Proficiency)
- IDEs & Libraries: PyCharm, Jupyter Notebook, VS Code, NumPy, Pandas, Scikit-learn, Tensorflow, Keras, PyTorch