

# Bishwas Mandal

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<https://bishwasmandal246.github.io>

## Education

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### 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

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

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

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

## Work Experience

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### 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

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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

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

## Computer Skills

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- 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