


# Bishwas Mandal

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## EDUCATION

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### Kansas State University

*Ph.D. in Computer Science, GPA 4.0/4.0*

Manhattan, KS

*Jan. 2020 – Dec. 2024*

### KL University

*B.Tech in Computer Science, GPA 8.2/10.0*

Vijayawada, India

*2015 – 2019*

## EXPERIENCE

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### Graduate Teaching/Research Assistant

*Kansas State University*

Jan. 2020 – Present

*Manhattan, KS*

- Developed Machine Learning/Deep Learning Models to validate the results in Privacy Utility Trade Off Problem
- Studied Probability Theory, Random Processes and Mutual Information
- TA for (1) Introduction to Algorithm Analysis - CIS 575, (2) Logical Foundations of Programming - CIS 301, and (3) Database Systems Concept - CIS 560

### Undergraduate Research Assistant

*KL University*

May 2018 – July 2019

*Vijayawada, India*

- Studied Steganographic techniques, and used PVD and LSB substitution to develop 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

### Trainee

*Info Click Private Ltd.*

May 2017 – July 2017

*Kathmandu, Nepal*

- Worked under Web Designing domain and concentrated on developing a website

## 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 IEEE International Conference on Communications, Montreal, Canada (In Press)
- **Mandal, B.**, Pradhan, A., Swain, G. (2019). Adaptive LSB substitution Steganography technique based on PVD. In 2019 3rd International Conference on Trends in Electronics and Informatics (ICOEI), Publisher: IEEE
- Shukla, U., **Mandal, B.**, Kiran, K.V.D. Perustration on Mobile Forensics Tools. In Computer Networks and Inventive Communication Technologies (In Press, Publisher: Springer)

## 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) • Machine Learning (CIS 890)

## AWARDS

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- Nepal Aid Fund Scholarship Scheme awarded by the Ministry of External Affairs, India (2015-2019). Award Value: USD 24,000
- 1st Prize in Intramural Football Competition organized by KL University

## TECHNICAL SKILLS

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**Programming Languages:** Python, MATLAB, HTML, CSS, Javascript, MySQL, C (Basic), Java (Basic)

**Developer Tools:** PyCharm, Jupyter Notebook, VS Code

**Libraries:** NumPy, Pandas, Matplotlib, Scikit-learn, Tensorflow, Keras, PyTorch