

**EDUCATION**

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- **Indian Institute of Technology (IIT), Bhilai** Bhilai, Chhattisgarh  
*Ph.D. in Computer Science and Engineering; CGPA: 7.93*  
 Thesis title: *Various Graph Coloring Problems on Restricted Graph Classes.*  
 2020 – 2025
- **Indian Institute of Information Technology (IIIT), Vadodara** Gandhinagar, Gujarat  
*M.Tech in Computer Science and Engineering; CGPA: 7.48*  
 Thesis title: *Decentralizing Crowdfunding using Blockchain Technology.*  
 2018 – 2020
- **Bengal College of Engineering and Technology, Durgapur** Durgapur, West Bengal  
*B.Tech in Computer Science and Engineering; CGPA: 8.57*  
 2013 – 2017
- **D.A.V. Public School, Koyla Nagar** Dhanbad, Jharkhand  
*12th; Percentage: 83.5*  
 2012
- **D.A.V. Public School, Koyla Nagar** Dhanbad, Jharkhand  
*10th; CGPA: 10*  
 2010

**LIST OF PUBLICATIONS**

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**Journal Papers**

- Bhyravarapu, S., Kumari, S., Reddy, I.V. On locally identifying coloring of Cartesian product and tensor product of graphs. *Discrete Applied Mathematics*, 358:429–447, 2024.
- Bhyravarapu, S., Kumari, S., Reddy, I.V. Dynamic Coloring on Restricted Graph Classes. *Theoretical Computer Science*, 115260, 2025.
- Choudhary, H.K., Kumari, S., Reddy, I.V. Star Coloring of Tensor Product of Two Graphs. *Discrete Mathematics, Algorithms and Applications*. [Accepted on November 10, 2025]
- Bhyravarapu, S., Kumari, S., Reddy, I.V. On the Parameterized Complexity of Odd Coloring. *Theoretical Computer Science*. [Submitted on October 31, 2025, Under review]

**Conference Papers**

- Bhyravarapu, S., Kumari, S., Reddy, I.V. (2023). Dynamic Coloring on Restricted Graph Classes. In: Mavronicolas, M. (eds) *Algorithms and Complexity. CIAC 2023. Lecture Notes in Computer Science*, pages 112-126, vol 13898. Springer, Cham.
- Bhyravarapu, S., Kumari, S., Reddy, I.V. (2023). On Locally Identifying Coloring of Graphs. In: Bagchi, A., Muthu, R. (eds) *Algorithms and Discrete Applied Mathematics. CALDAM 2023. Lecture Notes in Computer Science*, pages 147-158, vol 13947. Springer, Cham.
- Bhyravarapu, S., Kumari, S., Vinod Reddy, I. (2025). On the Parameterized Complexity of Odd Coloring. In: Gaur, D., Mathew, R. (eds) *Algorithms and Discrete Applied Mathematics. CALDAM 2025. Lecture Notes in Computer Science*, pages 60-72, vol 15536. Springer, Cham.
- Kumari, S., Parmar, K. (2021). Secure and Decentralized Crowdfunding Mechanism Based on Blockchain Technology. In: Dave, M., Garg, R., Dua, M., Hussien, J. (eds) *Proceedings of the International Conference on Paradigms of Computing, Communication and Data Sciences. Algorithms for Intelligent Systems*. Springer, Singapore.

## PATENT

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- Kumari, Neha., et al. (2025). Artificial Intelligence Based Multimedia Billboard. Design no. 437418-001. Issued January 27, 2025.

## SKILLS AND INTERESTS

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- **Areas of Interest:** Graph theory, Algorithms, Parameterized complexity.