

ASHWINI KUMAR MALVIYA

Room No. 209 Academic Block ◊ IIIT Una, Himachal Pradesh 177209

ashwinikm@iiitu.ac.in

EDUCATION

Maulana Azad National Institute of Technology, Bhopal

July 2022

Ph.D. in Computer Science & Engineering

Advisor : Dr. Namita Tiwari

Thesis : Quantum cryptanalytic attack on symmetric block ciphers

Maulana Azad National Institute of Technology, Bhopal

September 2015

M.Tech. in Advanced Computing

GPA: 8.95

Advisor : Dr. Meenu Chawla

Thesis Area : Computer Vision for Hand Gesture Recognition

Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal

June 2011

B.E. in Information Technology

Percentage: 74.53%

Advisor : Dr. Ritu Shrivastava

RESEARCH INTERESTS

Cryptology, Quantum Computing

PUBLICATIONS

1. Ashwini K. Malviya, Namita Tiwari, "Quantum linear cryptanalysis on a toy cipher," *Pramana – Journal of Physics*, 97(63), 2023.
2. Ashwini K. Malviya, Namita Tiwari, Meenu Chawla, "Quantum cryptanalytic attacks on symmetric ciphers: A review," *Computer and Electrical Engineering*, 101(C), 2022.
3. Kapil K. Soni, Ashwini K. Malviya, "Design and Analysis of Pattern Matching Algorithms Based on QuRAM Processing," *Arabian Journal for Science and Engineering*, 46, 2021.
4. Ashwini K. Malviya, Namita Tiwari, "Quantum Algorithm to identify Division Property of a Multiset," *Arabian Journal for Science and Engineering*, 46, 2021.
5. Ashwini K. Malviya, Namita Tiwari, "Linear approximation of a vectorial Boolean function using quantum computing," *Europhysics Letters*, 132, 2020.