EDUCATION			
Degree	Institution	CPI/%	Year
Ph.D. Mathematics	IIT Delhi	9.0	2027(tentative)
M.Sc. Mathematics	IIT Delhi	8.72	2020 - 2022
B.Sc. (H) Mathematics	University of Delhi	9.63	2017 - 2020

RESEARCH INTERESTS

- Algebraic Coding Theory
- Cryptography

My primary interest lies in algebraic coding theory, specifically **Algebraic Geometry codes and Codes over Rings**.

PUBLICATIONS & PREPRINTS

- Ankit Yadav, Vidya Sagar, Ritumoni Sarma: ACD codes and cyclic codes over Z_2R_k . Computational and Applied Mathematics, 44, 29 (2025), https://doi.org/10.1007/s40314-024-02984-0
- Vidya Sagar, **Ankit Yadav**, Ritumoni Sarma: Constacyclic codes over $\frac{Z_2[u]}{\langle u^2 \rangle} \times \frac{Z_2[u]}{\langle u^3 \rangle}$ and the MacWilliams identities. Applicable Algebra in Engineering, Communication and Computing, (2024), https://doi.org/10.1007/s00200-024-00662-6

CONFERENCES

- Presented a paper titled "Additive Complementary Dual Codes and Cyclic Codes over the mixed alphabet Z_2R_k" at the 16th International Conference on Finite Fields and Their Applications 2025 (Fq16) held in São Carlos, SP, Brazil, from July 7-11, 2025.
- Presented a paper titled "Additive Complementary Dual codes over Z_2R_k" at the 39th Annual Conference of the Ramanujan Mathematical Society held in CHRIST (Deemed to be University), Bengaluru, December 27-29, 2024.

PROJECTS

- M.Sc. Thesis Work, Commutative Algebra, IIT Delhi (August 2021 November 2021)
 - o Building up the theory from the Modules to the Noetherian Rings
 - o Study of Rings and Ideals, Modules, Tensor Products, Noetherian Rings
 - o Under the supervision of Prof. Vivek Mukundan

WORKSHOPS

- Attended an online seminar titled The 3rd International Coding Theory Seminar (3rd ICTS),
 Thailand (June 21, 2024)
- Attended an online seminar titled The 2nd International Coding Theory Seminar (2nd ICTS), India (March 25, 2024)
- Attended a two-day online workshop titled **Algebraic Codes and MAGMA Computation** organised by the Department of Mathematics, IIT Patna (November 10-11, 2023)
- Attended CIMPA Research School on Post-Quantum Cryptography organised by the Department of Computer Science, Pondicherry University, in association with CIMPA, France (December 10-21, 2023)
- Attended National workshop titled Advanced Topics in Finite Fields held at The Institute of Mathematical Sciences, Chennai (July 10-29, 2023)

 Attended a one-day workshop titled Algebra and its Applications organised by the Department of Mathematics, ARSD College, New Delhi (March 2019)

AWARDS & ACHIEVEMENTS

- Joint CSIR-UGC NET June 2025: Secured All India Rank 80
- Graduate Aptitude Test in Engineering (GATE) 2022: Secured All India Rank 120
- Joint CSIR-UGC NET June 2022: Secured All India Rank 185
- Joint Admission Test (JAM) 2020: Secured All India Rank 89
- Silver medalist in graduation
- Recipient of Scholarship for Promotion of Science Education (POSE), DST Haryana (2020 2022)
- Recipient of Scholarship for Promotion of Science Education (POSE), DST Haryana (2017 2020)
- Recipient of Haryana Ambedkar Scholarship Yojana (2015)

TECHNICAL SKILLS

Languages: C, C++

• Tools: MAGMA, LaTeX, Mathematica, MS Office