Divyanshu Kumar

BS-MS Mathematical Sciences
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Program	Institution/Board	Year	CGPA/%
BS-MS (*Mathematical Sciences)*	IISER-K	2018-23	7.53
Intermediate/+2	CBSE	2017	77.2%
Matriculation	CBSE	2015	10.00

WORK EXPERIENCE

- **Program Intern | Lodha Genius Program** [May 2025 – June 2025]
  - Served as Program Intern at the Lodha Genius Program (LGP), an initiative for high-performing students from grades 9 to 12.
  - Coordinated Teaching Assistants and supported academic delivery across multiple college-level courses.
  - Helped conduct problem-solving sessions, explained concepts, and clarified doubts for students.
  - Courses included:
    - *Week 1:* Fundamentals of Investing, Recurrences and Graph Theory, Linear Algebra
    - *Week 2:* Combinatorics, Differential Equations, Linear Algebra
    - *Week 3:* Estimates and Fermi Problems, Stochastic Processes
    - *Week 4:* Number Theory (Class 9-10), Mathematical Modeling

- **Teaching Fellow | Ashoka University** [Aug 2024 - May 2025]
  - *Probability and Statistics (Prof. Debapratim Banerjee)* [Aug 24-Dec 24]
  - *Statistical inference (Prof. Debapratim Banerjee)* [Jan 25- May 25]
  - *Calculus (Prof. Sarvesh Ravichandran Iyer)* [Jan 25- May 25]

PROJECTS

- **MS Project | *Prof.* Soumalya Joardar** [Aug 2022 - May 2023]
  - Studied *DeRham cohomology of smooth manifolds*
- **Independent Study | *Prof.* Chiranjib Mitra** [Jan 2023 - May 2023]
  - Studied *Quantum Computation and Quantum Information book by Neilsen and Chuang.*
- **Summer Project | *Prof.* Saugata Bandhopadhyaya** [June 2021 - July 2021]
  - Studied *Inverse and Implicit function theorem*
- **Summer Project | *Prof.* Somnath Basu** [May 2021 - June 2021]
  - Studied and presented *Weierstrass Approximation theorem and generalized Stone Weierstrass theorem*
- **Winter Project | *Prof.* P.K Panigrahi** [Nov 2018 - Dec 2018]
  - Read and presented the paper: *Quantum Violation of Pigeonhole Principle and the nature of quantum correlations*

RELEVANT COURSES

- **Mathematics:** Advanced Linear Algebra, Measure Theoretic Probability, Representation theory, Abstract Algebra, Graph Theory and Combinatorics, Topology, Complex Analysis, Functional Analysis, Measure Theory, ODE & PDE
- **Computer Science**: Programming and Data Structures, Natural Language Processing, Search Methods in Artificial Intelligence, Information Retrieval.

SCHOLASTIC ACHIEVEMENTS

- Qualified **Joint UGC-CSIR NET (JRF)** in Mathematics (*AIR: 123*) [2023
- Got All India Rank 1280 in *Graduate Aptitude Test in Engineering (GATE) 2024* with Mathematics [2024]
- Got **CERTI FICATE OF PROFICIENCY** in *Qiskit Challenge India* organised by IBM. [Sep 16,2020]

- Got **CERTIFICATE OF QUANTUM EXCELLENCE** in *Qiskit Global Summer School* organised by IBM. [July 20-31, 2020]
- Qualified **Joint Entrance Examination -Advanced.** [2018]

POSITIONS OF RESPONSIBILITY

- **Teaching Assistant | *Prof.* Saugata Bandhopadhyaya** [Oct 2022 - March 2023]
  - Responsible for weekly tutorial of the course MA1101
- **Department Represetative | 18MS Batch** [Aug 2020 - May 2023]
  - Responsible for communicating batch's feedback on various academic issues to higher authorities.

SKILLS & INTERESTS

- **Programming Languages**: C, Python, Javascript, Matlab, Arduino
- **Tools & Libraries**: Scipy, Matplotlib, Gnuplot, Qiskit, Numpy, Tensorflow LaTeX
- **Operating System**: Windows, Linux
- **Web Designing:** HTML, CSS, JAVASCRIPT