Dhiraj

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M.Sc. Mathematics and Computing
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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Sc. Maths and Computing	Indian Institute of Technology, Guwahati	**8.25 (Current)**	2022-Present
B.Sc. Physical Sciences	Kirori Mal College, University of Delhi	9.43	2019-2022
Senior Secondary	Haryana Board of School Education	92%	2019
Secondary	Haryana Board of School Education	94%	2017

PROJECTS

- **GateGuard** *Aug. 2023*

  Team Size-2 GitHub ⧉ | Website ⧉
  - A user-friendly website which **provides real-time monitoring of student's entry and exit** across various gates in IITG campus.
  - **Integrated barcode scanner** to seamlessly fetch student's information, thus avoiding manual data entry and resulting in better accuracy.
  - Implemented robust **error handling for duplicate entries and invalid data inputs**, maintaining the integrity of the database and minimizing data discrepancies.
  - Technologies used: **HTML, CSS, ExpressJS, NodeJS, ReactJS, MongoDB**

- **StudySphere** *June 2023 - Aug 2023*

  Self Guided GitHub ⧉ | Website ⧉
  - StudySphere **is a fully functional ed-tech platform** that enables users to create, consume, and rate educational content.
  - **Implemented authentication and authorization using JWT (JSON Web Tokens)**, thus providing a secure and reliable way to manage user credentials.
  - Technologies used: **ReactJS, NodeJS, ExpressJS, and MongoDB**.

- **Healthcare Management System** *Aug 2023 - Nov 2023*

  Prof. Kalpesh Kapoor, Dept. of Mathematics, IIT Guwahati, Team Size- 4 GitHub ⧉
  - **A Comprehensive Healthcare Platform** catering to doctors, students and faculty members of IITG.
  - Implemented robust **authorization and authentication mechanisms.**
  - Technologies used: **HTML, CSS, ExpressJS, ReactJS, NodeJS, MongoDB**

TECHNICAL SKILLS

- **Programming**: C, C++, Python, MATLAB*
- **Web Technologies**: HTML, CSS, JavaScript, ReactJS, NodeJS, ExpressJS
- **ML Frameworks**: Pandas, Numpy, Matplotlib
- **Database Management**: MySQL, MongoDB
- **Miscellaneous**: Wolfram Mathematica, LaTeX, Git, GitHub

* Elementary proficiency

ACHIEVEMENTS

- **Geeks-for-Geeks** ⧉ : **Best Rank 96 among approx. 4000** students in the institute.
- **IIT JAM-2022**: Secured **AIR-27 among approx 13000** candidates in IIT JAM examination.
- **TIFR-2022**: Cleared TIFR Mathematics written examination.

KEY COURSES TAKEN

- **Computer Science**: Data Structures & Algorithms, Database Management Systems, Theory of Computation, Object Oriented Programming
- **Mathematics**: Algebra, Discrete Mathematics, Differential Equations, Probability Theory, Optimization Techniques, Numerical Analysis, Mathematical Finance

EXTRACURRICULARS

- **Saathi Counselling Club, IITG**: Mentoring freshmen under Peer Mentorship Program.
- **R-software course**: Attended a 7-days R-software course by IIT Bombay.
- **DasKavay**: I write Hindi poems on different social issues on my blog DasKavay ⧉