KARTIK BANSAL

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Sc. Mathematics and Computing	Indian Institute of Technology, Guwahati	6.2 *(Current)*	2021-Present
B.Sc.(Hons.) Mathematics	University of Delhi, Delhi	9.405 *(Silver Medal)*	2018-2021
Senior Secondary	CBSE Board	92.8%	2018
Secondary	CBSE Board	10.0 CGPA	2016

PROJECTS

- **FindyourStartup (Completed | Team size: 2)**   *July 2022 - August 2022*
  Team Project   *Github ⌝ | Website ⌝*
  – A responsive & dynamic website for establishing the Startups−Investors network, interconnecting both globally.
  – A platform to provide every Startup with world-class investment gathering opportunities and sophisticated startup guidance.
  – The whole website is designed keeping in mind, every kind of people and their level of knowledge, and hence, it is not only a
    platform for experienced users but also a learning platform for beginners.
  – For best user experience, we used a blend of **HTML, Tailwind CSS, Javascript** for frontend and **Firebase** for backend.

- **HealthCare (Team size: 2)**   *Sept 2022 - Present*
  Prof. Ashok Singh Sairam, Dept of Mathematics, IIT Guwahati   *Github ⌝*
  – A dynamic healthcare website that provides a smooth and efficient channel for patients to register themselves,
    book appointments with doctors and access other basic medical services.
  – Captured the requirement analysis using **ER Diagram** to convert it into suitable relations with keys and constraints.
  – Developing distinct modules for physicians and patients to store and process databases using **SQL** and **PHP**.
  – The tech stack contains **HTML, Tailwind CSS, JavvScript, PHP & MySQL.**

- **Seminar Presentation on Blockchain Technology in Commercial Real Estate**   *October 2022*
  Dept of Mathematics, IIT Guwahati
  – The prime focus is to explore the choke points of the Commercial Real Estate industry and study the use case of Blockchain
    Technology in solving those pan-points.

TECHNICAL SKILLS

- **Programming**: C, C++, JavaScript, PHP
- **Web Technologies**: HTML, CSS
- **Database Management**: MySQL, Firebase*
- **Operating System**: Windows, Ubuntu*
- **Miscellaneous**: MATLAB, LaTeX*, Wolfram Mathematica*, Git*   ** Elementary proficiency*

KEY COURSES TAKEN

- **Computer Science**: Computer Programming, Data Structures and Algorithms, Theory of Computation*,
  Database Management Systems*.
- **Mathematics**: Differential Equations, Linear Algebra, Probability, Optimization Techinques, Numerical Analysis*.
- **MOOCs**: The Fundamentals of Digital Marketing (**Google Digital Unlocked ⌝**), TCS iON Career Edge ⌝
                                                                                           * Ongoing

POSITIONS OF RESPONSIBILITY

- **Core Team Member ⌝** : Election Comission, Students' Gymkhana Election, IIT Guwahati   *April 2022 - May 2022*
  – Contributed immensely towards organizing a smooth and harmonious Elections as an integral part of the organizing team.

- **Member of Organizing Committee ⌝** : National Conference on Emerging Trends in Mathematical Sciences
  for Industry and Environment : Use of Technical Hindi Terminology.   *January, 2020*
- **Core Team Member ⌝** : Ganitam'20, The annual department fest, Mathematics Society, SBSC, DU.   *February, 2020*

ACHIEVEMENTS

- **The Joint Admission Test for M.Sc. (JAM 2021)**: Secured **AIR 107** among **13,186 candidates** appearing for the test in Mathematics,
  conducted by IISc Bangalore.
- **SBSC Silver Medal for B.Sc.(Hons.) Mathematics ⌝** : Received Silver Medal by securing second highest **CGPA - 9.405**
  (aggregate of I, II, and III years) in SBSC, University of Delhi (Batch: 2018 - 2021).
- **Kamakshi Trehan Memorial Merit Scholarship ⌝** : Obtained highest aggregate marks in B.Sc. (Hons.) Mathematics
  (IV sem.), SBSC, University of Delhi.
- **GeeksforGeeks ⌝** : Rank under 200 among 4000+ registered students of Indian Institute of Technology, Guwahati.

EXTRACURRICULARS

- **Saathi Counselling Club, IITG**: Mentoring freshmen under Peer Mentorship Program.   *Aug 2022 - Present*
  – Organised an informative event on the occasion of Suicide Prevention Day.

- **The Sparks Foundation ⌝** : Selected as an intern for Web Development and Desiging.