



Rajat Khandelwal

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M.Sc. Mathematics and Computing

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Sc. Mathematics and Computing	Indian Institute of Technology, Guwahati	6.8	2022-2024
B.Sc(H) Mathematics	Jaipur National University	77.84%	2019-2022
Senior Secondary	CBSE Board	89.40%	2019
Secondary	CBSE Board	9.4	2017

PROJECTS

- **Tours And Travel Management System** Aug. 2023 - Present
Prof. Kalpesh Kapoor, Dept of Mathematics, IIT Guwahati [Github](#)
 - Created a **Django**-based travel site connecting travelers, hotels, transport, and guides for seamless trip planning
 - Enabled users to create, enroll, and manage trips while allowing **stakeholders** to offer their services
 - Used **PostgreSQL** for database management, and **HTML**, **CSS** for frontend design, ensuring better user interactions
- **JOSAA Analysis Portal** Jun. 2023 - Jul. 2023
Coding Club, IIT Guwahati [Github](#)
 - Developed a web portal using **Django** and **SQLite** to explore seat allotment data and provide insights into cutoff variations
 - Employed data cleaning techniques using **NumPy** and **Pandas**, and used **Chart.js** to display information on the portal
 - Deployed the portal via **PythonAnywhere**, allowing users to identify optimal institutes for specific courses
- **MentalVue: Unlocking Mental Wellness** Jul. 2023 - Aug. 2023
Self [Github](#)
 - Developed a predictive model allowing for individual profiling and estimating the likelihood of accepting **mental healthcare**
 - Executed in-depth **EDA** to identify critical elements influencing patterns of mental health treatment
 - Implemented various ML models like **Logistic Regression**, **KNN**, **Random Forest etc.** achieving accuracy of **94.05%**
- **EquityEdge: Data-Driven Price Projections** Aug. 2023 - Sept. 2023
Finance and Economics Club, IIT Guwahati [Github](#)
 - **Created** an intuitive **platform** using **Django** with real-time visuals, amplifying trading strategies through informed insights
 - Used **Long-Short term memory** for stock price forecasts of a specific stock for given forecast period
 - Demonstrated proficiency in **Pandas**, **NumPy**, **Scikit-Learn**, **SQLite** for processing and forecasting data

TECHNICAL SKILLS

- **Programming:** C, C++, Python, MATLAB
 - **Data Analysis:** NumPy, Pandas, Matplotlib, Seaborn
 - **Tools/Frameworks:** Scikit-Learn, Keras*, Tensorflow*
 - **Database Management:** mySQL
 - **Web Technologies:** HTML, CSS, Django*
 - **Miscellaneous:** MS-Excel, \LaTeX
- * Elementary proficiency

KEY COURSES TAKEN

- **Mathematics:** Linear Algebra, Probability Theory, Optimization Techniques, Mathematical Finance, Discrete Mathematics, Numerical Analysis, Differential Equations
- **Computer Science:** Data Structures and Algorithms, Database Management System, Theory of Computation
- **Data Science:** Summer Analytics(Consulting Club, IIT Guwahati)
- **Online Certificates:** Data Visualization by **TATA**, Data Science & Analytics by **BCG**

POSITIONS OF RESPONSIBILITY

- **Core Team Member**, Social Service Club, IIT Guwahati Sep. 2022 - Apr. 2023
 - Organized events like **plantation drives**, **blood donation campaigns**, **eye-checkup camp**, **etc.** in and around our campus
 - **Collaborated** with external organizations and **NGOs** to raise awareness about social issues

ACHIEVEMENTS

- **JAM**, Secured **AIR-40** in Joint Admission Test for Masters (JAM) amongst **13,000+** candidates 2022
- **Scholarship**, Received a scholarship for meritorious performance in class X 2017

EXTRACURRICULARS

- **Math Tutor**, Worked as a Math Tutor at **Chegg** and **Studypool** 2022-2023
- **Hostel Affairs Board**, Core Team Member of the largest board of IITG, overseeing issues of **10K+** students 2022
- **Saathi Counselling Cell, IITG**, **Mentoring** four juniors under the Peer Mentorship Program of Saathi Club 2023
- **Prayatana, IITG**, Organized a face painting event to promote awareness about **PRIDE** movement 2023
- **Welcome Onboard, IITG**, Volunteered in ensuring a comfortable transition for over **1200+** freshers 2023