Rajat Khandelwal

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Sc. Mathematics and Computing	Indian Institute of Technology, Guwahati	9.4	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

- **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

- **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 health-care**
  - 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%**

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, Optimisation Techniques, Mathematical Finance, Discrete Mathematics, Numerical Analysis, Differential Equations
- **Computer Science**: Data Structure and Algorithms, Database Management System, Theory of Computation
- **Data Science**: Summer Analytics(Consulting Club, IIT Guwahati)

Positions of Responsibility

- **Core Team Member**, Social Service Club, IIT Guwahati *September 2022 - April 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

- **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*