

Rishabh Kumar

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EDUCATION

Int. M.Tech. Geological Technology | Minor in Economics
Indian Institute of Technology Roorkee, India

2021 - 2026

GPA: 8.227/10.0

Intermediate (Class XII)
Central Public School, Samastipur (CBSE)

2020

Percentage: 82%

Matriculate (Class X)
D.A.V. Public School, Samastipur (CBSE)

2018

Percentage: 98.8%

EXPERIENCE

Field Science Research
Niigata University Japan

May 2023 - July 2023
Niigata, Japan

- Conducted detailed studies of 4 sedimentary outcrops to understand the flow and sedimentation processes.
- Collaborated in 2 laboratory research at Niigata University and INPEX, focusing on natural hazards and natural gas.
- Explored the UNESCO Fossa Magna Museum and studied one of the sections of North American-Eurasian fault lines.

PROJECTS

Stock Sentiment Analysis

June 2024

Finance Club, Indian Institute of Technology, Roorkee

- Achieved 51.03% portfolio return using a sentiment-based trading strategy on 10+ stocks with 0.97 accuracy.
- Incorporated varied text datasets to enhance overall model performance, leading to reduced prediction errors by 15%.

Inventory Demand Forecasting

March 2024

Tinkering Lab, Indian Institute of Technology, Roorkee

- Implemented the XGBoost ML algorithm to predict inventory demand, reducing stockouts & overstock by 20%.
- Evaluated historical data trends and analytics to fine-tune inventory levels, achieving a 30% increase in on-time delivery.

Conference Management Portal

December 2023

Indian Institute of Technology, Roorkee

- Spearheaded the development of CMP, streamlining processes reducing administrative processing time by 60%.
- Optimized workflows for abstracts, registration, e-certificates, and payments, reducing transaction inquiries by 30%.
- Tech Stack: HTML 5, CSS, JavaScript, Node.js, Express.js, EJS, MongoDB, Git.

ChatWiz

December 2022

Indian Institute of Technology, Roorkee

- Developed a text-based chatting website with OpenSSL encryption, ensuring secure communication for 100s of users.
- Tech Stack: HTML 5, CSS, JavaScript, PHP, MySQL, Apache, Git, AWS.

ACHIEVEMENTS

Finalist, Dark Pattern Buster Hackathon 2024.

Received HoD's Letter of Appreciation for outstanding academic performance in 3rd Year of Undergraduate.

Secured International Rank 50 & State Rank 1 in Mathematics Olympiad in 2018.

Secured State Rank 20 in NTSE Exam 2017.

TECHNICAL SKILLS

Programming languages: C++, Python

Web Technologies: HTML, CSS, JS, NodeJS, Express, MongoDB, PHP, React

ML/AI/Analytics: Pandas, Numpy, Matplotlib, SQL, Excel, Tableau, Power BI

Miscellaneous: MySQL, AWS, Git

RELEVANT COURSEWORK

Additional Courses: Summer Analytics (IIT Guwahati), Machine Learning Specialization (Andrew Ng)

Minor: Economics

POSITIONS OF RESPONSIBILITY

Events Secretary, Student Mentorship Program, IIT Roorkee

June 2024 - Present

Collaborated in a diverse team of 73 members to foster connections between senior students and freshers at IIT Roorkee.
Directed the planning and implementation of seven impactful career guidance workshops at IIT Roorkee.

Deputy General Secretary, Wellness Center, IIT Roorkee

August 2023 - May 2024

Led a team of 5 members in development of a Counselling Portal for students, promoting emotional well-being on campus.
Promoted mental health awareness and supported students by booking 100+ counselling appointments with counsellors.