RISHABH KUMAR | 16GG20023

APPLIED GEOLOGY (M.Sc. 5Y)
MINOR in COMPUTER SCIENCE & ENGG. (B.Tech 4Y)

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2021	M.SC(5YR)	IIT Kharagpur	8.42 / 10
2015	CBSE	DAV Public School ,NIT Campus Adityapur	87.6%
2013	ICSE	Kerala Public School, Kadma	89.8%

AWARDS AND ACHIEVEMENTS

- Branch rank **4th** amongst 24 students of Applied Geology with a cumulative average of 8.72 in the previous four semesters.
- Branch rank **3rd** among the students of Applied Geology, in the sixth semester with a SGPA of 9.39/10.
- Recipient of Merit-Cum- Means Scholarship awarded by Department of Science and Technology, India for two consecutive years.
- Awarded with Super Acheiver's Award 2015-2016 for Academic excellence at D.A.V Public School, NIT campus Adityapur.

INTERNSHIPS

Data Science Intern at Mindtree Ltd.   [May 2018 - July 2018]

- Developed analytics and predictive scoring models for all the products of one of the major FMCG company in India.
- Predicted the optimum retail store for a given product using the aforementioned model with 82% accuracy.
- Built predictive models using **Neural Networks** and **Logistic Regression** algorithms in python.
- Natural Language Processing methods like **TF-IDF Vectorizer** and **Count Vectorizer** were used for text features.
- Preprocessed the data using **Normalization** and **SMOTE** to harmonise with the model used .
- The developed model is currently being implemented with an estimated reduction of cost to the company by **30%**.

Trainee at Netmax Technologies PVT. LTD.   [June 2017-July 2017]

- Worked under the suprevision of senior developers to write codes for different projects for the company.
- Utilized algorithm and Data Structure in C for creating business Logic for Netmax Technologies.
- Debugged written program codes to understand the cause of errors and removed them to make it error-free.

Bharat PetroResources Limited | Mumbai   [May 2019 - June 2019]

Basic Well Log Interpretation and Pore Pressure Prediction Studies
- Computed various **Petrophysical properties** such as porosity, Vshale, Sw of the reservoir & identified contacts from the well log data.
- Performed well to seismic tie by generating **Synthetic Seismogram** of a particular well using sonic and density logs on **Petrel.**
- Mapped Faults, horizons and generated Volumetric attributes like **Variance**, **Ant-Tracking** for Fractures in Basement Reservoir.
- Identified prospective regions of hydrocarbon accumulation from well log data and estimated the **Gross and Net reserve.**
- Estimated the Overburden Stress, Pore Pressure on **Techlog** to understand the different processes of Pore Pressure generation.

POSITIONS OF RESPONSIBILITY

Vice President | Society of Petroleum Engineers | IIT Kharagpur   [September 2019 - Present]

- Part of the core team responsible for organizing SPE 2018 and 2019, IIT Kharagpur student chapter.
- Coordinated a team of 20 executive members for managing the events, workshops and guest lectures for SPE 2019.

Executive Head | Prithvi | Department of Geology and Geophysics   [July 2017 - Present]

- Part of the core and design team responsible for organizing Prithvi 2018 and 2019, India's biggest Earth Science symposium.
- Oversaw nationwide publicity of Prithvi; achieved **30%** increase in participation with more than **2000** registrations in 2019.
- Instrumental in securing sponsorship deals worth INR 3.0 Lakhs along with lectures and workshops by dignitaries from ONGC.
- Coordinated a team of **30** executive members for managing the events, workshops and guest lectures for Prithvi 2019.
- Nominated for the post of **Secretary** SEG, IIT Kharagpur Chapter-PRITHVI 2020 owing to the significant contributions in team.

Coordinator | Athletics Team LLR Hall   [July 2018 - Present]

- Unanimously nominated by 350 boarders to lead the Hall Athletics Team under General Championship Sports and Games 2018.
- Coordinated a team of **20** members which secured 10 medals in Athletics General Championship Sports and Games 2018.

Student Mentor | Student Welfare Group | IIT Kharagpur   [July 2018 - Present]

- Selected via peer review to an institute-wide team of **80** among 500 applicants as a part of the Student Mentor Programme.
- Mentored freshmen in academic, extra-academic and personal issues, to aid smooth transition into IIT KGP culture.

Crew Member | Spring Fest | IIT Kharagpur   [January 2017 - July 2017]

- Managed more than 300 participants with a Team of 50 members and oversaw the transportation & reception of the guests.

COURSEWORK INFORMATION

- **Courses Taken:** Structural Geology | Sedimentalogy | Petroleum Economics and Management | Probability and Statistics
- **Additional courses:** Reservoir Geomechanics by Stanford University | Programming & Data Structure | Design & Analysis of Algorithm

SKILLS AND EXPERTISE

- **Software Tools:** Petrel | Techlog | Matlab| Solidworks | MMRA   **Programming Languages:** C | C++ | Java | Python
- **Online courses**: Machine Learning (A-Z) using Python, Neural Network and Deep Learning by Prof. Andrew NG

EXTRA CURRICULAR ACTIVITIES

- Member of the winning team of the Football championship organized by the Earth Science Study Circle in 2017.
- Completed **2 years** of NSO Sports and Games, IIT Kharagpur and member of Athletics Team, IIT Kharagpur.
- Participated in Inter Hall Athletics under General Championship Sports and Games in 2016, 2017 secured 4th position in Shotput (2017).
- Participated in Open IIT, Pentathlon and Trihalon Athletics in the events of Shotput and Discus in 2016, 2017.
- Member of Inter-hall Hindi dramatics team under **Social and Cultural** General Championship, IIT Kharagpur 2016.