



Shikha Bharti
UG (IV Year II Semester)
BS-MS (Chemical Sciences)
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Registration No: 21321028/2025



Area of Interest

Data Science and Analytics, Machine Learning

Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2024	BS 4th Year	Indian Institute of Technology, Roorkee	7.973
2021	Intermediate (Class XII)	A J MAHILA COLLEGE, BANMANKHI, PURNEA (BSEB)	77.80 %
2019	Matriculate (Class X)	S V MANDIR SRI NAGAR ROAD BAGHMARA PURNEA BR (CBSE)	92.20 %

Internships

Data Science Intern | Exposys Data Labs November 2024 - December 2024

- Prepared the dataset by handling missing data, created transformer pipeline for **10K+ transactions** for fraud detection
- Implemented machine learning algorithms to build a fraud detection system, analyzing results with **graphs** for insights
- Assessed performance of **3 algorithms** by comparing accuracy metrics, hyperparameter tuning for robust detection

Data Science Intern | CodeCLause September 2024 - October 2024

- Processed **5,000+** customer to predict Customer Lifetime Value, uncovering key drivers using exploratory data analysis
- Trained models like **Random Forest**, Gradient Boosting, achieving RMSE of 906.38, reducing prediction error by **15%**
- Enhanced retention and revenue optimization by evaluating 7 models via **cross-validation** having **MAPE of 4.9%**

Projects

Stock Sentiment Analysis Using Machine Learning | Finance, IIT Roorkee May 2024 - June 2024

- Developed a sentiment analysis model to predict stock price movements by utilizing **4000+ textual** data samples.
- Leveraged **NLTK** for tokenization, stopwords removal, and Bag of Words, achieving **88%** accuracy with logistic regression.
- Delivered 10% portfolio returns with an **86%** win ratio, enhancing investment decision-making and portfolio performance.

PDF Answering AI | AriES, IIT Roorkee May 2024 - June 2024

- Fine-tuned DistilBERT model for question-answering tasks on **SQuAD** dataset, achieving accuracy of **98%** in performance
- Designed text preprocessing pipeline, including the removal of over **2,500 stopwords**, leading to refined dataset
- Integrated **GloVe embeddings** to enhance semantic meaning, resulting in **15%** improvement in information retrieval

Awards / Scholarships / Academic Achievements

- Dean's Letter Of Appreciation for achieving the **highest** increment in **CGPA (>0.5)** for the session 2022-23
- HOD's Letter of Appreciation for achieving the greatest **SGPA** growth of more than **1.0** in the 2021-2022 academic year

Skills

Computer languages	C++, Python, SQL, Tensorflow, Pandas
Software Packages	Power BI, MS Excel, My SQL
Additional Courses	Summer Analytics (CAC IIT Guwahati), Google Data Analytics (authorized by Google)
Languages Known	English, Hindi

Positions of Responsibility & Extra Curriculars

Deputy Cell Secretary (Management Cell) | NSS IIT Roorkee August 2022 - June 2023

- Led a team of **150+** executives, collaborating with **80+** sophomore IITR students to organize impactful social initiatives
- Managed budget of **5 lakh**, securing 10+ sponsorships for Social Summit '23, achieving **50%** funding increase over year
- Engaged **500+** participants and coordinated 5+ events, including Blood & Cloth Donation Camp and Social Summit Fest

Event Coordinator | Cognizance, IIT Roorkee February 2024 - March 2024

- Executed Codify Rumble event at Cognizance (Technical Fest) of IIT Roorkee, coordinating logistics and schedules while ensuring high-quality delivery and participant engagement.

BCG Data Science Job Simulation | Forage December 2024

- Conducted customer churn analysis using **exploratory data analysis**, identifying trends and actionable insights
- Engineered and optimized **random forest classifier**, achieving **89%** accuracy through advanced feature engineering
- Delivered executive summary with strategic recommendations, optimizing engagement tactics for over **1,000 users**

Competitive Programming | Online Judge January 2024 - Present

- 2-star** with rating **1468** on CodeChef (s_bharti44), depict problem-solving expertise and programming proficiency.

Sport's Sub Council | Himalaya Bhawan, IIT Roorkee March 2024 - Present

- Organized INTRA BHAWAN sports events, engaging **100+** students ensure smooth execution, foster vibrant sports culture
- Encouraged participation and teamwork, driving **30%** increase in student involvement and promoting sportsmanship
- Managed allocation and maintenance of sports equipment and facilities, improving operational efficiency by **20%**