

ROOPKISHOR SINGH

Goldman Sachs | IIT Roorkee

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SUMMARY

Enthusiastic and result oriented professional with a keen interest in applications of Data Science. Demonstrated history of applying Natural Language Processing techniques to solve problems in Personal Finance Management(PFM) and Operational Risk.

EDUCATION AND SCHOLASTIC ACHIEVEMENTS

Program	Institution	%/CGPA	Year
B. Tech (Mechanical Engineering)	Indian Institute of Technology Roorkee	7.7	2018
Class XII (C.B.S.E.)	Central Academy	90.2%	2014
Class X (C.B.S.E.)	Tata Chem DAV Public School	10	2012

AREA OF INTERESTS

Natural Language Processing, Machine Learning, Data Analytics, Personal Financial Management

TECH STACK

Python, SQL, R programming, AWS, Docker, Gitlab, Snowflake, Databricks, Tableau

PROFESSIONAL EXPERIENCE

Data Science Associate Goldman Sachs Bangalore May 2020-Present	Personal Finance Management Models (Fintech App): Developing models and APIs for customer-facing features in Marcus app includes a combination of modelling, development, design and consumer understanding.
	<ul style="list-style-type: none">● Transaction Categorization - Developed a model for classifying the user transactions into 24 categories like shopping, bills etc. based on the transaction description using a random forest classifier along with a stepwise design to integrate user feedback.● Merchant Names Extraction - Extracting clean merchant names from the transaction description using fastText embeddings to prioritize rarely occurring words.● Asset Verification Service - Built a model and API to estimate user income which can be used by various lines of business, especially lending.● Recurring Expense Identification - Built a Fourier transform model to identify the recurring expenses of a user for customer-facing features, fraud models and disputes.
Risk Analyst Goldman Sachs Bangalore June 2018-April 2020	Operational Risk Models and Metrics: <ul style="list-style-type: none">● Developed the first machine learning model to classify operational risk events to L4 Risk Taxonomy using NLP and other techniques. This model Reduced manual effort by 80% along with the scope for human errors.● Designed and Developed automated metrics to track key operational risk indicators of the firm.

INTERNSHIPS AND PROJECTS

Research Intern - Bobbie Keyboard Gurugram May 2017-July 2017	User Feedback analysis System: <ul style="list-style-type: none">● Feedback text analytics collected through various sources● Developed a sentiment analysis model using libraries like NLTK, Stanford coreNLP and Text CNN● Created a dashboard for key progress indicators based on the text feedback analytics
Industrial Collaboration Swaniti Initiative Mar 2017-May 2017	Predicting treatment, Infant Mortality rate and Maternal mortality rate: <ul style="list-style-type: none">● Swaniti Initiative is a non-profit organization working with the government to improve health standards● Developed an ensemble regression to estimate the various mortality Rates

SCHOLASTIC ACHIEVEMENTS

- Secured **1st position in GS Quantify 2017** hosted by Goldman Sachs for 22 top tier colleges in India
- Secured **2nd position in Young Data Science 2017 competition** by ZS Associates
- Secured **1st position in Data Analytics Competition 2017** conducted by Department of Management Studies, IIT Roorkee

COURSES, GITHUB AND BLOG

Courses	<ul style="list-style-type: none">● Natural Language Processing with Classification and Vector Spaces● AWS Fundamentals: Going Cloud-Native Machine Learning by Andrew NG
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POSITIONS OF RESPONSIBILITY

Secretary Data Science Group IIT Roorkee	<ul style="list-style-type: none">● DSG, IITR is a group of data science enthusiasts who aim towards developing the culture of data science.● Lead a team of 22 people and Played an instrumental role in the establishment of the group.● Conducted workshops, hackathons, and research paper discussions.
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