

Dhruv Rana

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SCHOLASTIC RECORD

Year	Degree	Institute	CGPA/%
2016	M.Chem	ICT - Mumbai	8.1
2013	B.E. (Hons.) Chemical Engineering	BITS Pilani, Pilani Campus	6.47
2009	12 th (CBSE), PCM	Vivekanand School, Delhi	85%
2007	10 th (CBSE)	Air Force School, Hindon	82%

WORK EXPERIENCE

OPTIRISK SYSTEMS		Research Analyst & Software Engineer	Dec 2018 - Present
Technical Skills: Python, R, Flask, SQL, Data Studio, Microsoft Office - Excel, Linux, Bash, Influx DB			
Roles & Responsibilities	Product: Strategies based on SSD		
	<ul style="list-style-type: none">• Interacting with Indian and Chinese clients to start live trading• Developed strategies for NIFTY Futures and NIFTY 50• Server and database maintenance for smooth running of live trading on NIFTY, HANGSENG and SP500 across 3 timezones• Developing and deploying backend systems for data scrapping, market alerts and market data		
Achievements	<ul style="list-style-type: none">• New strategy went live for NIFTY Futures trading• Completed 9 months of trading on HANGSENG which generated 15% profit• Developed new strategies for NIFTY 50 using AI/ML models		
CRISP ANALYTICS		Data Scientist Engineer	Nov 2017 - Dec 2018
Technical Skills: Python, R, Flask, AWS, Ethereum, PostgreSQL, RSA, Solidity, EC2, S3, Bash, Linux			
Roles & Responsibilities	Project: TVS Credit - Risk Control(4 months)		
	<ul style="list-style-type: none">• Developed model using behavioural analysis to identify delinquent customers• Designed comprehensive data model for project development• Performed data validation on client data to rectify gaps in staging and core data• Selected and created variables using weight of evidence and information value• Performed logistic regression to create the confusion matrix• Identified target customers with high probability of NPA and delinquency		
Achievements	<ul style="list-style-type: none">• Increased efficiency of existing model by 50% for prediction of delinquent customers• Reduced the cost of customer follow ups of risk control unit		
Roles & Responsibilities	Project: MyBox - Identity Information on Blockchain(6 months)		
	<ul style="list-style-type: none">• Worked on monetising and secure sharing of personal identification information• Performed feasibility analysis of backend and Ethereum blockchain development• Implemented ERC20 tokens for development of crypto-currency• Encryption and safekeeping of KYC data using state of art RSA encryption algorithms		
Achievements	<ul style="list-style-type: none">• Process of sharing information became more transparent and hassle-free		
SNAPMINT		Data Analyst	Sep 2016 - Nov 2017
Technical Skills: Python, Ruby, DBMS, H2O, D3, Tableau, ETL, Microsoft Office - Excel, Bash, Linux, Elasticsearch, Mongo DB			
Roles & Responsibilities	Product: Snapmint(Smart lending platform)		
	<ul style="list-style-type: none">• Developed generalised linear model in H2O to detect the key factors in bounces.• Performed rejection analysis to increase loan disbursement to false negative customers• Automated the customer verification (KYC) using algorithms like soundex, jaro-winkler• Collaborated with cross functional teams for smooth business functioning• Designed dashboard and MIS reports for reporting of business performance		
Achievements	<ul style="list-style-type: none">• Designed and developed policy for credit appraisal of customers• Turn around time in verification and under-writing process was reduced significantly		

AWARDS & ACHIEVEMENTS

Academic	• Among top 0.5% in All India Engineering Entrance Exam (AIEEE)	2009
	• Awarded the KVPY Scholarship by IISC, Bangalore for excellence in KVPY Exam	2008
	• Awarded Merit certificate for excellence in Mathematics by CBSE, in class X	2007
Courses	• Successfully completed Introduction to Data Science in Python , Data Analysis Tools, Data Management and Visualisation & Customer Analytics from Coursera	2016

RESEARCH

Institute of Chemical Technology, Mumbai		April 2015 - May 2016
Research Title: Prediction of Efficacy of Oligo-Peptides using QSAR and ANN (link)		
Methodology	<ul style="list-style-type: none">• Did research to predict IC50 values of peptides using Artificial Neural Network & QSAR• Used Stuttgart Neural Network Simulator (SNNS) and R for modelling• Used neural networks with 1 and 2 hidden layers with quick propagation algorithm	
Achievement	<ul style="list-style-type: none">• Second prize in International Conference on Artificial Intelligence held at NMIMS, Shirpur	

OTHERS

<ul style="list-style-type: none">• Guitar, Online Gaming, Philosophy, Origami, Cooking
