

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

WORK EXPERIENCE

EXL		Senior Consultant	Sep 2021 - Present
Technical Skills: Python, Elasticsearch, Pandas			
Roles & Responsibilities	Product: eBrain (Bank Account Data Intelligence)		
	<ul style="list-style-type: none">Developed location based search algorithm for merchants in consumer bank dataDeveloped spent categorisation features for detecting the patterns in customer spending behaviour		
Achievements	<ul style="list-style-type: none">Accuracy and coverage of merchant identification improved marginallyHyper-personalised customer marketing can be done by detecting customer personas		
OPTIRISK SYSTEMS		Research Analyst & Software Engineer	Dec 2018 - Sep 2021
Technical Skills: Python, R, Flask, SQL, Linux, Shell Scripting, D3, Data Studio			
Roles & Responsibilities	Product: Strategies based on SSD		
	<ul style="list-style-type: none">Identifying requirements of Indian, US and UK stakeholders to build investment & trading solutionsCo-ordinating with internal team across the globe for smooth running of strategies and development of internal systemsDesigned stop-loss for risk management of portfoliosDeveloped strategies for NIFTY 50 & SP500Deployment and maintenance of live strategies on cloud and developed systems for PnL reports for stakeholdersServer and database maintenance for live trading on NIFTY, HANGSENG and SP500 across 3 timezonesDeveloped and deployed backend systems for data scrapping, market alerts and market data & sentiment dataConducted seminars and talks to explain strategies and how & why they workConducted knowledge transfer session for new recruits for quick and smooth orientation		
Achievements	<ul style="list-style-type: none">New strategy went live for NIFTY Futures trading which generated 34% profit in 8 monthsCompleted 2 years of trading on HANGSENG which generated 40% profitDeveloped new strategies for NIFTY 50 using AI/ML modelsImplemented stop-loss which improved returns of strategy from 14% to 70%Conducted seminar on TradeTron which improved strategy subscription from 12 to 100+Implmented new automated strategies on TradeTron, Exante and Interactive Brokers		
CRISP ANALYTICS		Data Scientist Engineer	Nov 2017 - Dec 2018
Technical Skills: Python, R, Flask, AWS, Ethereum, PostgreSQL, RSA, Solidity, Redash, Metabase, Data Studio			
Roles & Responsibilities	Project: TVS Credit - Risk Control(4 months)		
	<ul style="list-style-type: none">Developed model using behavioural analysis to identify delinquent customersDesigned comprehensive data model for project developmentPerformed data validation on client data to rectify gaps in staging and core dataSelected and created variables using weight of evidence and information valuePerformed logistic regression to create the confusion matrixIdentified 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 customersReduced 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 informationPerformed feasibility analysis of backend and Ethereum blockchain developmentImplemented ERC20 tokens for development of crypto-currencyEncryption 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	
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	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 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 Sttugart 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
