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	12th **(CBSE), PCM**	Vivekanand School, Delhi	85%
2007	10th **(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

	Product: Strategies based on SSD
Roles & Responsibilites	• **Interacting** with **Indian and Chinese clients** to start live trading • **Developed strategies** for NIFTY Futures and NIFTY 50 • **Server** and database **maintenence** 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	• 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

	Project: TVS Credit - Risk Control(4 months)
Roles & Responsibilites	• 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	• Increased **efficiency** of existing model by **50%** for prediction of **delinquent customers** • Reduced the cost of customer follow ups of risk control unit
	Project: MyBox - Identity Information on Blockchain(6 months)
Roles & Responsibilities	• 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	• 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

	Product: Snapmint(Smart lending platform)
Roles & Respobilites	• Developed **generalised linear model** in H_2O 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	• 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	• 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	• **Second prize** in International Conference on **Artificial Intelligence** held at NMIMS, Shirpur

Others

- Guitar, Online Gaming, Philosophy, Origami, Cooking