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

OPTIRISK SYSTEMS — Research Analyst & Software Engineer — Dec 2018 - Present
Technical Skills: Python, R, Flask, SQL, Linux, Shell Scripting

Roles & Responsibilites	**Product: Strategies based on SSD** • **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

Roles & Responsibilites	**Project: TVS Credit - Risk Control(4 months)** • 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
Roles & Responsibilities	**Project: MyBox - Identity Information on Blockchain(6 months)** • 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

Roles & Resposibilites	**Product: Snapmint(Smart lending platform)** • 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) • Awarded the **KVPY Scholarship** by IISC, Bangalore for excellence in KVPY Exam • Awarded **Merit certificate** for excellence in **Mathematics** by CBSE, in class X	2009 2008 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 Research Title: Prediction of Efficacy of Oligo-Peptides using QSAR and ANN		April 2015 - May 2016
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