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

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, EC2, S3, Bash, Linux

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, ETL, Microsoft Office - Excel, Bash, Linux

Roles & Resposibilites

Product: Snapmint(Smart lending platform)

- Developed **generalised linear model** in **H_20** 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**	
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