



Siddham Jain
Chemistry
Indian Institute of Technology Bombay
Specialization: Chemistry

16B030011
4 year B.S.
Male
DOB: 18/07/1997

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2020	7.80

Pursuing a minor degree in **Entrepreneurship** from Desai Sethi Centre for Entrepreneurship, IIT Bombay

PROFESSIONAL EXPERIENCE

HDFC Bank, Mumbai | Risk Analytics Unit

[May '19 - Jul '19]

Awarded a Pre-Placement Offer for exemplary performance during the internship

- Developed a **Risk Model** to find different **clusters** and calculated their probability of being involved in **fraudulent** activities
 - Mapped **60M+** bank transactions (NEFT, IMPS) as **Graph Database** with customers as nodes and transactions as edges
 - Devised an algorithm to find all **directed cycles** of transactions from this database; improved the running time by **~90%**
- Built the architecture of models trained on SVM, Random Forest, Boosted Trees, kmeans & Linear Regression using **TensorFlow**
- Analyzed the **sentiment** of Management Discussion and Analysis in Annual Reports using **NLP techniques** with **~78%** accuracy

Capital Float, Bangalore | Decision Sciences Team

[May '18 - Jun '18]

Awarded a Pre-Placement Offer for exemplary performance during the internship

- Performed **features extraction** from shop images to have alternate data to assess risk in underwriting the low-risk customers
- Implemented **Convolutional Neural Network (CNN)** Model to classify shop images into **8** different **business categories**
 - Trained the model using **Transfer Learning** on **8000+** images and validated on **2000+** images; achieved the accuracy of **~68%**
 - Extracted **linguistic features** from shop images using **Google Vision** and **Amazon Rekognition** APIs to gather more data
 - Improved the overall accuracy of the CNN Model to **~80%** by ensembling a model trained on linguistic features
- Developed a model to extract the information from **PAN** and **Aadhar Card** and used that in **auto tagging** the documents

KEY PROJECTS

Toilet Ads | Guide: Prof. Devdip Purkayastha | Entrepreneurship Course Project

[Jan '19 - May '19]

- Incorporated the idea of **smart advertisement** in public toilets through interactive medium of high-tech **video games**
- Ideated innovative **market entry strategies** after conducting extensive **market research** to understand this business case
- Tested the effect of advertisement in toilets in sales of a local salon shop resulting in a **25% increment** of customers

Bicycle Leasing Service | Guide: Prof. Raj Jaswa | Entrepreneurship Course Project

[Jul '17 - Dec '17]

- Conceptualized the original **start up idea** of an inexpensive **bicycle service** solving the problem of pollution and lazy lifestyle
- Developed a **Business Model Canvas** after extensive research on value proposition, customer discovery and cost structure
- Prototyped the design of bicycles with a built-in **smart lock system** enabled via IIT Bombay ID card for efficient service

POSITIONS OF RESPONSIBILITY

Hospitality and PR Coordinator | Mood Indigo, IIT Bombay

[Apr '17 - Dec '17]

- Headed a team of **10+** organisers to manage and negotiate **marketing deals** of transport, mattresses and accommodation
- Played a pivotal role in managing the **accommodation** of **1,40,000+** participants along with a **15** membered team

Sports Secretary and Mentor | Hostel 15, IIT Bombay

[Jul '16 - May '17]

- Initiated the **first** ever Sports Festival '**Raftaar**' (Budget: **INR 2.5 lakh**) to organize **10+** sports events with **50+** participants
- Mentored freshmen to organize **intra hostel sports** activities and ensured active participation of all hostel inmates

TECHNICAL PROFICIENCY

Relevant Courses: Machine Learning, Deep Learning, Data Analytics in Operations, Managerial Economics

Data Science Tools/Libraries: TensorFlow, Keras, PyTorch, Theano, nltk, NumPy, Pandas, Scikit-Learn, Networkx

Programming and Software: C/C++, Python, R, MySQL, AWS, Neo4j, SolidWorks, AutoCAD, Adobe Photoshop

EXTRA CURRICULARS

SCHOLASTIC	Offered scholarship for Higher Education (top 1%) under INSPIRE program of the Government of India	['16]
	Participated in National Science (VIJYOSHI) Camp organised under Kishore Vaigyanik Protsahan Yojna	['16]
	Secured 99.83 and 97.69 percentile in JEE Main and Advanced, among 1.5M & 0.2M candidates	['16]
	Certified for completing Quantitative & Algorithmic Trading bootcamp by former director, Deutsche Bank	['18]
	Completed a 5-week Basic Spanish course offered by Prof. Deepa Sheth at IIT Bombay	['18]
TECHNICAL	Trained VGG-16, ResNet-50, Inception-v3, AlexNet on ImageNet dataset to analyse their performance	['18]
	Implemented RNN model for Time Series prediction of opening stock price of Apple using 7 features	['19]
SPORTS	Successfully completed a 15-day Mountaineering Adventure Course conducted by JIMWS, Pahalagam	['17]
	Secured 1st position in Cricket General Championship ; participated in Advanced Cricket Summer Camp	['16, '18]
SOCIAL	Devoted 80 hours of volunteering at Muskaan and LCCWA (NGOs) to educate underprivileged kids	['16]