

# Siddham Jain

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## EDUCATION

### INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY

MAJOR IN CHEMISTRY

MINOR IN ENTREPRENEURSHIP

2016 - 2020 | 7.88/10

## TECHNICAL PROFICIENCY

### COURSEWORK

Machine Learning

Deep Learning

Natural Language Processing

Web Development

Data Analysis

Linear Algebra

Managerial Economics

### PROGRAMMING

C/C++ • Python • R • JavaScript

MySQL • MATLAB • CSS •  $\text{\LaTeX}$

PHP • HTML

### DATA SCIENCE TOOLS

TensorFlow • Keras • PyTorch • NLTK

Theano • NumPy • Pandas

Scikit-Learn • OpenCV • NetworkX

## ACHIEVEMENTS & EXTRA-CURRICULARS

- Scholarship under **INSPIRE** Program for Higher Education
- Participated in **National Science Camp** organised under KVPY
- 99.83** and **97.69** percentile in JEE Main & Advanced respectively
- Certified for **Quantitative & Algorithmic** Trading bootcamp
- Completed a 5-week Basic **Spanish** course at IIT Bombay
- Completed a 21-day **Mountain Adventuring** course
- Part of Advanced **Cricket** Summer Camp, IIT Bombay
- 1st** position in Cricket General Championship, IIT Bombay
- Volunteered for two **NGOs** to educate underprivileged kids

## WORK EXPERIENCE

### HDFC BANK | RISK ANALYST INTERN

May '19 - Jul '19 | Mumbai, Maharashtra

*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 running time by **90%**
- Built the architecture of models trained on SVM, Random Forest, Boosted Trees, kmeans and Linear Regression using **TensorFlow**
- Performed **Sentiment Analysis** of Management Discussion and Analysis (MD&A) in Annual Reports using **NLP** techniques

### CAPITAL FLOAT | DECISION SCIENCES INTERN

May '18 - Jun '18 | Bengaluru, Karnataka

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

- Performed **features extraction** from live business environment 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 accuracy of **68%**
  - Extracted **linguistic features** from shop images and used that to improve the overall accuracy to **80%**
- Developed an **OCR** model to extract information from PAN & Aadhar Card images

## PROJECTS

### DELIVER | E-COMMERCE WEBSITE DEVELOPMENT

May '20 - Jun '20 | DIY-Project

Developed an **E-Commerce website** using PHP, MySQL, JS, CSS and HTML for setting up a virtual marketplace for furniture products

### TOXIC COMMENTS CLASSIFICATION | DATA ANALYTICS IN RESEARCH

May '19 - Jul '19 | IIT Bombay

Developed models trained on **RNN, LSTM, GRU, Bidirectional RNN** and **BERT** to classify Twitter comments as toxic or non-toxic and compared their results

### MACHINE TRANSLATION | KAGGLE PROJECT

Mar '20 - Apr '20 | DIY-Project

Implemented **sequence-to-sequence** model for English to German translation

### ENVISION | ENTREPRENEURSHIP MINOR

Jan '20 - Jun '20 | IIT Bombay

Orchestrated a startup idea to provide **mentorship** while ensuring **mental well-being** of students preparing for JEE; provided the service to **10+** customers

### BICYCLE LEASING SERVICE | ENTREPRENEURSHIP MINOR

Jul '17 - Dec '17 | IIT Bombay

Conceptualised the idea of **bicycle lending service** to address increasing pollution and advocate healthy lifestyle; Built **MVP** for the same