

## Devansh Chandak Computer Science & Engineering Indian Institute of Technology Bombay

180110027 UG Second Year Male

DOB: 20/11/1999

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2020	9.88
Intermediate/+2	CBSE	Birla High School, Kolkata	2018	99.00
Matriculation	ICSE	La Martiniere For Boys, Kolkata	2016	98.67

## SCHOLASTIC ACHIEVEMENTS

- Secured All India Rank 4, State Rank 2 in the Grade 10 ICSE Examination out of 250,000 students (2016)
- Achieved All India Rank 5 in the CBSE Board Examinations (Grade 12) out of 1.2 million candidates (Overall East Zone Topper and All India Rank 3 in the Science Stream) (2018)
- Only student to be awarded the Advanced Performance grade (AP) for extraordinary performance in the Computer Programming and Utilization course out of 528 students (2019)
- Awarded **AP** grade in **Advanced Calculus** (given to the top 12 students out of 1032) and in the **Biology** course consisting of *Molecular*, *Physical and Biomedical modules* (top 3 students out of 502) (2018)
- Attained a Semester Performance Index (SPI) of perfect 10 in the First Semester (2018)
- Among the top 12 students to be granted Change of Branch/Major to Computer Science (2019)
- $\bullet$  Offered Computer Science at the National University of Singapore (NUS) with 100 % scholarship (2018)

## SCHOLARSHIPS AND RECOGNITION .

- Bagged the **Institute Academic Award**, given to the **Top 25** out of a batch of 1000+ students for *exceptional* academic performance in the first year of Undergraduate Study at IIT Bombay (2018-19)
- Bestowed with the KVPY (Kishore Vaigyanik Protsahan Yojna) Fellowship, given to the talented young minds in the field of Science and Technology, by Department of Science and Technology, Govt. of India (2018)
- Was felicitated by **His Excellency, The Governor of West Bengal**, with the *Mamraj Agarwal Rashtriya Puraskar* for exemplary performance in the ICSE Examinations (2016)
- Awarded the Swami Vivekananda Scholarship for Undergraduate Study by the Govt. of West Bengal (2018)
- Received a personal **Letter of Appreciation** and a cash award from Ms. Mamata Banerjee, The Chief Minister of West Bengal for *exemplary* performance in the CBSE Examinations (2018)
- Granted the Ramawatar Gupt Pratibha Puraskar and a cash award by Sanmarg Foundation for securing 99 % in Hindi in the ICSE Board Examinations (2016)
- Felicitated with the **Times of India EduShine** for stupendous performance in the Grade 12 Board (2018)
- Recipient of the **Udbhav Poddar Memorial** Prize and the Dr. **RS Pandey Proficiency** Silver Medal for securing the **highest marks** in the country in Mathematics and Hindi respectively, in the ICSE (2016)
- Felicitated with a **Gold** medal, by *Mr. S.K.Birla*, industrialist & trustee of Birla High School (2018)

# INTERNSHIP AND RESEARCH EXPERIENCE

## ${\bf Spam\ Email\ Classification--Applied\ Machine\ Learning}$

(April - May '19)

Guide: Dr. Vipul Arora

Analysis of MI Algorithms for Snam Frazil Classification in Pathor

Indian Institute of Technology, Kanpur

- Analysis of ML Algorithms for Spam Email Classification in Python
  - · Anaylzed KNN, Naive Bayes, SVMs and Neural Networks and finally implemented **Naive Bayes** and **KNN** for the classification of various data sets into **spam and ham** using *Keras*, Pandas, Numpy and *Scikit-learn*
  - · Compared accuracies for various data sets and categorised the best method for each data set
  - · Awarded Letter of Recommendation for exceptional performance shown during the internship

### Data Analytics Intern

(May - June '19)

Guide: Mr.Amit Ambekar (Vice President, Marketing)

Spencer's Retail Ltd.- RPSG group

- Analysis of underperforming stores given all KPIs and SKU (Stock Keeping Units) level data
  - Statistical Analysis of transactional data at store level to understand and attribute reasons for de-growth Given all the KPIs with respect to category, used deep dive into individual SKU level performance to come

## Leave Application Chatbot

(Nov - Dec '18)

Guide: Mr. Mohsin Ali (Project Manager)

 $City tech\ Software\ Pvt.\ Ltd.$ 

• Configured and enhanced a **chatbot** for Paylite Leave Application using the **Microsoft LUIS** platform

up with solutions to counter degrowth, in the MGF Gurgaon Hyper store and the Vizag Hyper store

- Helped in introducing VOICE to TEXT feature (using Bing API) from Microsoft Azure
- Research on **Human Resource Automation** and **comparative study** between *LUIS*, *Google Dialog Flow* and other developments in *Google Assistant*, *IBM Watson*, *Alexa and Cortana*

# KEY TECHNICAL PROJECTS

#### Survey Management — Data Analysis and Visualisation

(Ongoing)

Guide: Prof. Amitabha Sanyal — Software Systems

IIT Bombay

- Developing Google-like forms with extension by Conditional forms
  - · Users would be able to create completely modular forms, add questions with arbitary type including file uploads, to be used as quizzes and surveys shareable to organisations or individuals
  - The data acquired could be analyzed by **plotting numerics**, summarizing and presenting subjective answers and *objective responses* can be used as features to **learn dependencies**
  - · Involving use of Matplotlib, Database Management, Web Development and JavaScript

#### Screen Printing — Three Electrode System

(Jan - Apr '19)

Guide: Prof. Parag Bhargava — Materials and Technology

IIT Bombay

- Investigated Rheological properties of Carbon paste and analyzed Cyclic Voltametry for three electrode system
- Extensively made a three electrode system **cheaper** then any other in the market using carbon and silver paste Image Reconstruction & Compression (Aug '19)

 ${\it Guide: Prof. \ Amitabha \ Sanyal -- Software \ Systems}$ 

IIT Bombay

- Transformed **distorted** images by cleaning out noises such as salt and pepper noise using Numpy and Scipy
- Used KMeans++ algorithm to flatten out coloured images across several K values to get the Enhanced Image

## Positions of Responsibility —

Teaching Assistant

(July '19 - Nov '19)

CS 101 - Computer Programming and Utilization under Prof. Purushottam Kulkarni

IIT Bombay

- Only sophomore to be selected for the TA-Ship on the basis of academic prowess in the subject
- Involved in teaching and assisting students within and outside lab hours, with problems, conceptual doubts and other clarifications on a one-to-one basis

#### Interact Coordinator — Community Service

(2017-18)

Rotary Club of Calcutta Visionaries

Rotary International

- Coordinated blood camps, health camps, eye camps, newspaper collection drives
- Organised sports for village children in Lakshya Bagan, Sunderban, West Bengal
- Conducted free computer classes for underpriveleged children of Sambhu Sadan Vidayala, Kolkata

#### Events Coordinator, Techfest

(Apr '19 - Jan '20)

Asia's largest Science and Technology Festival, footfall of 175,000 +

IIT Bombay

- Spearheading a team of 15+ in conceptualizing and organizing Technoholix, featuring performances and concerts from renowned International performers and DJs, and a part of the Techfest World MUN 2020 team
- Involved in organizing PAN India workshops about investment education along with NISM, NSE and SEBI as a part of the Financial Literacy Initiative to promote financial literacy among the youth

## Technical Skills .

**Programming Languages** Web & App Development C++, Python, Java, Bash, AWK, Sed, Make, CMake,

Android Studio, HTML, PHP, CSS, JavaScript

**Software Skills** 

Git, IATEX, MATLAB, MySQL, AutoCAD, Microsoft Excel

## KEY COURSES UNDERTAKEN

Data Structures and Algorithms\*, Discrete Structures\*, Abstractions & Paradigms\*\*, Computer Science

Data Analysis and Interpretation\*, Software Systems\*, Computer Programming &

Utilization, Computer Networks\*\*, Digital Logic Design\*\*, Logic for CS\*\*

Mathematics Calculus, Linear Algebra, Differential Equations

Others Quantum Physics and Application, Electricity and Magnetism, Biology, Introduction

to Electrical and Electronics Circuits\*, Materials and Technology

ongoing,\* to be completed by November 2019 ongoing, \*\* to be completed by April 2020

### Extracurriculars \_

• Completed a year long training programme in Lawn Tennis at IIT Bombay

(2018-19)

• Participated in **DanceMania** 2k19, the Inter Hostel Dance Competition at IIT Bombay

(2019)

• Completed **Eight** levels of Abacus in the UCMAS Academy and won a *Merit Certificate* for Level Six (2010)

• Active player of Cricket and Table Tennis at the school level

(2016-18)

• Took part in the National Science Olympiad and won a gold medal

(2016)

• Participated in the Spanish Guitar playing competition, Sur-Tal

(2012)