

# Sarvasv Arora

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## EDUCATION

### MCGILL UNIVERSITY

FRESHMAN - COMPUTER SCIENCE

AND STATISTICS

September 2020 - Present | Montreal, Canada

Faculty of Arts

James McGill Scholar

CGPA: 4.0

### BANASTHALI PUBLIC SCHOOL

12<sup>TH</sup> GRADE - AISSCE (CBSE)

May 2020 | New Delhi, India

Science Stream (Physics, Chemistry, Math, Computer Science)

School Topper

Percentage: 96.6

Grade: A

## LINKS

Website:// [sarvasvarora](https://sarvasvarora.com)

LinkedIn:// [sarvasvarora](https://www.linkedin.com/in/sarvasvarora)

Github:// [sarvasvarora](https://github.com/sarvasvarora)

Email:// [sarvasv.arora@mail.mcgill.ca](mailto:sarvasv.arora@mail.mcgill.ca)

## COURSEWORK

Programming Languages and Paradigms

Honors Algorithms and Data Structures

Probability

Honors Applied Linear Algebra

Introduction to Computer Systems

Introduction to Data Structures

Introduction to Software Systems

Calculus 3 (Multivariate Calculus)

Algebra 1

Honours Analysis 1

## SKILLS

### PROGRAMMING

Python • C/C++ • Java • Tf/Keras

PyTorch • HTML • CSS • Javascript

Bootstrap •  $\text{\LaTeX}$  • Git/GitHub

### LANGUAGES

English • Hindi

### SPORTS

Cricket • Soccer • Badminton

### OTHER

Team Management • Communication •

Reasoning and Analytic Thinking • Time

Management • Art and Craft

## EXPERIENCE

### NEW YORK ACADEMY OF SCIENCES | JUNIOR ACADEMY

December 2019 – December 2020

- Selected as a Junior member to cohort of around 1500 students from over 20,000 applicants.
- Worked in teams to propose solutions to annual challenges.
- Awaiting decision to work as a mentor.

### CODING4KIDS | CURRICULUM DEVELOPMENT AND PUBLIC OUTREACH

July 2019 – August 2019 | Remote

- Created several chapters in the Python course taught to over 200 US students.
- Played a key role in public outreach team by generating website impressions via social media marketing.

## PROJECTS

### PathLink | BOLT MCGILL CASE COMPETITION

- Machine Learning powered web app that allows automated group formation based on students' preferences like skill level, time-zone, areas of interest, etc. almost instantly, thereby saving professors' time and maximizing group chemistry.
- Built using Python, Streamlit and includes visualizations made using Plotly to analyze the data.

### WordC | SIDE PROJECT | WIP

- A command line application that integrates various python libraries to enable creation word clouds via the command line. Currently only supports displaying the word cloud in iTerm2 (can be saved to disk too).
- Further development goals include adding ability to scrap websites (given URL) and make word cloud out of that, and integration of more terminals.

## OTHER PROJECTS

Beek-it – a search engine coded in Python • Advent of Code 2020 Hangman Game • Scrabble-like word game (with AI) • Tic-Tac-Toe Simon Game WebApp • PokeDex (Pokemon Classifier, using KNN algorithm) • MNIST and IRIS classifiers • Linear Regression (using gradient descent) • Data tales

## CERTIFICATES

- DeepLearning.ai specialization (5 courses) on Coursera
- Intro to CS using Python by MITx on Edx
- OOP using C++ by IIT Bombayx on Edx

## AWARDS

2020	James McGill Scholarship	Highest entrance scholarship for int'l students by McGill University
2020	AP Scholar with Honor	Exemplary performance in AP exams, College Board
2019	19 <sup>th</sup> Rank (Int'l)	National Cyber Olympiad, SOF and TCS
2018	43 <sup>rd</sup> Rank (Int'l)	National Cyber Olympiad, SOF and IIT Khadagpur
2017	27 <sup>th</sup> /20000	JSTSE, Government of Delhi
2016	High Distinction (Int'l)	ANCQ, Royal Australian Chemical Institute
2015	2 <sup>nd</sup> /200	Heritage Quiz, Archaeological Survey of India
2012	1 <sup>st</sup> Position (National)	Earth Day Drawing Competition, Government of India