

# Abhishek Chandar

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## SUMMARY OF QUALIFICATIONS

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- Proficient in undergraduate computer science courses with an overall CGPA of 9.36/10 (Data Structures - A+, Algorithm Design and Analysis - A+, Programming in Java - A+, Discrete Mathematics - O, Machine learning - A+)
- Excellent communication and interpersonal skills honed by presenting in various research conferences and club activities. Fluent in English, beginner in French
- Experience in technical writing and LaTeX
- Strong desire to share my knowledge and learn about academia hands-on via Teaching Assistantship
- Received approval for the study permit from the Canadian High Commission

## EDUCATION

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- **University of Ottawa** 📍 Ottawa, ON  
*Master of Computer Science Concentration in Applied Artificial Intelligence (Thesis-based)* Sept 2021 – Apr 2023  
*Research Supervisor: Prof. Mehrdad Sabetzadeh*
- **SRM Institute of Science and Technology** 📍 Chennai, India  
*Bachelor of Technology in Computer Science and Engineering* Jul 2017 – May 2021

## RELEVANT EXPERIENCES

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- **SRM CARE (Centre for Applied Research in Education)** 📍 Chennai, IN  
*Student Researcher* Jan. 2018 – Jan 2021
  - Developed **eSkill** - an online evaluation tool that provides personalized concepts for learning and evaluation using MERN stack. The application has been incorporated in the university curriculum and is currently being used by 10,000+ students and faculties
  - Evaluated the academic performance of undergrad engineering students using eSkill
- **Crio.Do** 📍 Chennai, IN  
*Java Backend Developer [Online certificate link]* Jan 2020 – Apr 2020
  - Built a **stock portfolio analyzer** using real-time stock market data. Leveraged multiple **data structures in Java**.
  - Implemented **Factory Design Pattern** and worked with **Jackson** for serialization and deserialization of Json response
- **AT&T** 📍 Remote  
*AT&T Aspire Summer Intern* Aug 2019 – October 2019
  - Developed a **Spam classification system** to detect spam text using machine learning techniques
  - Evaluated the performance of different machine learning algorithms based on a benchmark dataset
- **Computer Science Department Student Club** 📍 Chennai, IN  
*Vice President* Jan. 2019 – Jan 2020
  - Displayed **leadership skills** and organized technical workshops for students
  - Presented an InfoSec talk addressing 200+ engineering students and faculties

## PUBLICATIONS AND CONFERENCES

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- **Prediction of annual Indian Summer Monsoon Rainfall using Parametric Deep learning model**  
*International Conference on Data and Information Sciences (ICDIS 2021) [Certificate Link]* May 2021
- **Seasonal Southwest Monsoon Rainfall Prediction over India using AI techniques**  
*International Conference on Space Science and Technology (ICSST 2021) [Video Link]* Apr 2021
- **Favourable subpopulation migration strategy for Travelling Salesman Problem**  
*International Journal for Business Intelligence and Data Mining [Article Link]* Feb 2022

## RELEVANT PROJECTS

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### • Anonymous Accident Reporting System

*Deep Learning*

*Jan 2020 – May 2020*

- Built an incentive based system to encourage people to report road accidents effectively
- Developed a CNN object detection model for accident detection and made it mobile compatible using TFLite
- Implemented an end-to-end pipeline using React and Node.js to store the coordinates of the accident location

### • Traffic Volume Prediction

*Applied Machine Learning*

*Nov 2019 – Dec 2019*

- Performed data cleaning processes to remove outliers and conducted Exploratory Data Analysis on the dataset
- Analyzed the performance of ensembling techniques after performing Dimensionality reduction
- Developed a Time series forecasting model to predict the traffic volume of a given location

### • Spothole

*App development*

*Aug 2019 – Sept 2019*

- Worked on real time Accelerometer sensor data from smartphones to detect potholes on-the-go
- Developed a Flutter application to detect sudden jerks while driving using built-in smartphone sensors
- Designed an finite state automata algorithm to detect the potholes using accelerometer data

### • News Category Classification

*Natural Language Processing*

*Jul 2019 – Aug 2019*

- Implemented NLP data cleaning procedures using NLTK
- Identified methods of encoding the words into vectors for modelling stage
- Developed keyword-based document clustering to classify documents into different newspaper categories

## TECHNICAL SKILLS

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<b>Operating Systems</b>	Linux, Windows
<b>Programming languages</b>	Java, Typescript, C++, Dart
<b>Scripting</b>	Python, PHP, Vanilla JS, React, Node.js, Server config for web hosting
<b>Others</b>	Git, LaTeX, OpenNLP, Scikit-Learn, Keras, PyTorch, Comet ML, Weka, MySQL, Tableau

## AWARDS

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<b>2020</b>	Ranked top 1% in 6th semester GPA: 9.98/10
<b>2019</b>	Vice President – Computer Science Student Department Club at SRM IST
<b>2019</b>	Winner – Infineon Campus Commune hackathon
<b>2018</b>	Winner – HackSRM hackathon
<b>2018</b>	Ranked top 1% in 3rd semester GPA: 9.68/10
<b>2015</b>	Best Cadet of the year award in National Cadet Corps (Led a contingent of 75 cadets)
<b>2012</b>	National Science Olympiad International rank - 331.

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