

+1 (807) 709-9571  
Ontario, Canada  
aditya98singhal@gmail.com

# Aditya Singhal

## Graduate Student in Computer Science

Portfolio: [aditya-ml.github.io](https://aditya-ml.github.io)  
[github.com/aditya-ml](https://github.com/aditya-ml)  
[linkedin.com/in/asinghal-a1](https://linkedin.com/in/asinghal-a1)

### EDUCATION

**Lakehead University, Canada** 2021 - 2023  
Master of Science in Computer Science, GPA: 8.725/10

**Delhi Technological University, India** 2016 - 2020  
Bachelor of Technology in Electrical & Electronics Engineering, GPA: 8.39/10

### TECHNICAL EXPERIENCE

**Lakehead University - DaTALab** 2021 - Present  
*Research and Teaching Assistant* Canada

- Developing machine learning frameworks for analyzing effectiveness of social media intervention in healthcare
- Conducted hands-on lab sessions, office hours, and evaluated assignments for 100+ students in Computer Programming-II and Computer Graphics

**Vector Institute for Artificial Intelligence** OCT - DEC'22  
*Teaching Assistant* Remote

- Developed assignments and delivered tutorials focusing on machine learning forecasting, data shift, and model adaptation to 50+ participants during workshops

**Major League Hacking (MLH Fellowship)** SEP - NOV'22  
*Software Developer* Remote

- Collaborated on Meta's open-source project Cinder that has thousands of daily users worldwide

**Google Summer of Code - NRNB** JUN - SEP'22  
*Software Development Intern* Remote

- Developed Jupyter notebooks showcasing Computational Modeling in Biology Network (COMBINE) standards and libraries
- Implemented testing of COMBINE libraries via Continuous Integration (CI)

**Capgemini** 2020 - 2021  
*Sr. Software Engineer* India

- Developed web applications, created user interfaces and built full-stack applications for 3 European clients using SAP Ui5, Fiori and ABAP technologies

**University of Padova - Visual Intelligence & Machine Perception** JUN - SEP'19  
*Research Intern* Venice, Italy

- Implemented 5 RNN/LSTM models using OpenCV library on TensorFlow to generate trajectory prediction plots

### SKILLS

<b>Tools and Languages</b>	C/C++, Python, Git, $\text{\LaTeX}$
<b>Data Science &amp; Machine Learning</b>	MySQL, Selenium, TensorFlow, keras, Tableau, PowerBI
<b>Web Development</b>	HTML, CSS, JavaScript, Bootstrap, jQuery, node.js, express, mongo DB, AWS, Nodemailer, APIs

### PROJECTS AND RESEARCH PUBLICATIONS

- Synergy Between Public and Private Health Care Organizations During COVID-19 on Twitter: Sentiment and Engagement Analysis Using Forecasting Models (**JMIR Medical Informatics**, Aug 2022) | First author
- Enhancing Accuracy for Human Trajectory Forecasting in Crowded Scenes (**ICIGP Conference, Singapore**, Feb 2020) | First author
- NODDLE: Node2vec based deep learning model for link prediction (**EAI BDTA Conference**, Dec 2022) | Co-author
- Distilling from Twitter: New Perspectives in Healthcare Organizations Using Association Rule Mining (under review) | First author
- Twitter Wordcloud: A full stack flask web application for fetching tweets and creating word clouds.

### ACHIEVEMENTS AND ACTIVITIES

- **Vice-President** of Graduate Assistants' executive board at Lakehead University APR - SEP'22
- Awarded **Vector Scholarship in Artificial Intelligence**, Vector Institute, Toronto 2021 - 2022
- Awarded **Graduate Funding (Academic merit-based)**, Lakehead University 2021 - 2023
- Winner of **Conference Travel Grant**, Delhi Technological University 2020
- Winner of **International Student Scholarship**, University of Padova 2019