Aditya Singhal
Graduate Student in Computer Science

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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   *Canada*

- 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   *Canada*

- 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   *Canada*

- 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

- 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

Tools and Languages	C/C++, Python, Git, LaTeX
Data Science & Machine Learning	MySQL, Selenium, TensorFlow, keras, Tableau, PowerBI
Web Development	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