

# Arunim Garg

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## SUMMARY

A dynamic and responsible individual that sees the world through a lens of purpose, people, profit, and planet. My 2 years of hands-on industry experience in R, and expertise in Python and Data Analysis along with my curiosity to learn enable me to develop machine learning models to make a positive impact on people's lives. I'm currently in the process of finishing Google Data Analytics Certificate.

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## PROFESSIONAL EXPERIENCE

### Research Data Analyst

Lakehead University

January 2020 - October 2021, Thunder Bay, ON

- Investigated services provided by family physicians (FPs) to improve health human resource planning (HHRP) in Ontario by reducing the disparity between rural and urban populations.
- Used R to analyze ICES physician database and OHIP physician billing database of 30K and 99M observations, respectively.
- Developed methodologies to analyze >200M records of FPs each year to develop more accurate estimates of physician demand and supply in Ontario.
- Created data visualizations for describing the results using Python, Tableau, and R.

### ML Developer

Commonplace.ai

November 2020 - July 2021, Calgary, AB

- Automated text-analyzing processes for a public affairs company by preparing an end-to-end NLP solution for text extraction, text summarization, and text proof-reading using a scalable ETL pipeline with Microsoft Azure services.
- Trained and tested a LUIS model on 1600 email documents to extract text fields with a 98% accuracy.
- Developed and implemented scalable python applications for text retrieval and indexing that reduced email review time by 200x.
- Gathered client requirements to prepare and deliver quality product designs on time and on budget.

### Graduate Assistant

Lakehead University

September 2019 - April 2021, Thunder Bay, ON

- Conducted guest lectures, lab tutorials, and curated curriculum for Elementary Computing (Fortran), Cloud Computing (MapReduce, Kubernetes, Google Cloud Platform), Software Engineering (Java, Object client-server framework), Operating System (C/C++), Android Development (Kotlin).

### IT Intern

XiiTech IT Solutions Inc.

May 2018 - August 2018, Vancouver, BC

- Configured cloud computing IAAS - Amazon AWS (Route 53, EC2, S3) and developed scripts in CLIs using Python, C/C++ for UNIX administration.

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## PROJECTS

### To investigate the role of machine learning in medical research

Published - Computer Science Review Volume 40 • May 2021

### Predicting family physicians based on their practice using machine learning

In publication pipeline • September 2021

### Using machine learning to assess the range of services provided by family physicians in Ontario, Canada

To be published - Government Information Quarterly Journal - Elsevier • December 2021

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## EXTRACURRICULAR

### 'Flatten the curve, Then Recover the Economy' Virtual Hackathon

Alberta Innovates • May 2020

- Developed an AI chatbot that can answer any COVID-19 related question to help increase awareness and help flatten the curve.
- Used AWS services including Sagemaker, Kendra, Lambda, DynamoDB, and Cognito and extended the Chatbot to be used with Amazon Alexa.

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## EDUCATION

### Master of Computer Science, Artificial Intelligence Specialization

Lakehead University (LU) • Thunder Bay, ON • May 2021 • 4.0

### Bachelor of Science in Information Technology

Minor in Business Administration • Fairleigh Dickinson University (FDU) • Vancouver, BC • December 2018 • 3.65 (4.0 Scale)

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## AWARDS

### Faculty Research Award, Graduate Assistantship

Lakehead University • Fall 2019, Fall 2020

### Honors List (> 3.5 CGPA)

Fairleigh Dickinson University • Fall 2016, Spring 2017, Fall 2017, Spring 2018, Fall 2018

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## SKILLS

Programming languages and open-source libraries: Python (OpenCV, Tensorflow, Keras, PyTorch), Java, C++, HTML5, CSS3, Latex, Linux, Matlab