

Arunim Garg

📍 Vancouver, Canada ✉ agarg27@lakeheadu.ca 🌐 in/arunimgarg 🌐 https://www.datalab.science/#team

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.

PROFESSIONAL EXPERIENCE

Research 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.

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

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.

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)

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

SKILLS

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