

# Arunim Garg

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## SUMMARY

A dynamic and responsible individual sees the world through a lens of purpose, people, profit, and the planet. My two years of hands-on industry experience in Scala, R, and expertise in Python and Data Analysis, along with my curiosity to learn, enable me to develop ML models to impact people's lives positively.

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## PROFESSIONAL EXPERIENCE

### Data Engineer Intern

**Insurance Corporation of British Columbia (ICBC)**

**May 2022 – November 2022, North Vancouver, BC**

- Built 5 data pipelines that ingested up to 6B records of transactional data from multiple sources and created summary tables for a customer within ICBC.
- Developed data transformation pipelines using TDD with Scala and Spark in Hadoop ecosystem; optimized pipelines to improve processing time up to 80%.
- Used tools including Apache Hive, DBEaver, and RDBMS (Oracle and MySQL) to analyze data and support ad hoc requests.
- Practiced agile development in a team of data engineers and QA analysts, participated in new-hire buddy system, and volunteered at company social events.

### Data Analyst

**ZLC Financial**

**January 2022 – April 2022, Vancouver, BC**

- Migrated financial data to a new CRM system to enhance customer service and improve client relations for over 20 financial advisors by extracting, auditing, and consolidating their client data.
- Expedited the migration process by a month by implementing a new pipeline to audit large datasets by automating data integrity review process.
- Liaised with the project team to share technical results with non-technical stakeholders in a simple and engaging format.
- Reported directly to the CIO in daily touch-point meetings, developed weekly progress reports, and documented procedures.

### 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

**Communica**

**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.

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## RESEARCH PAPERS

### 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

Published – 2021 IEEE International Conference on Big Data (Big Data) • December 2021

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

Presented – International Conference on Intelligent Biology and Medicine 2022 • August 2022

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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 • 90%

### 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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## SKILLS

Python (OpenCV, Tensorflow, Keras, PyTorch), R, Scala, Apache Spark, Apache Hive, MySQL, Oracle, Java, C++, HTML5, CSS3, Latex, Linux, Matlab, Microsoft Excel, DBEaver, Hue