

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.

PROFESSIONAL EXPERIENCE

Data Engineer

Insurance Corporation of British Columbia (ICBC)

May 2022 - Present, 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.
- Worked in a team of data engineers and QA analysts, practicing agile development and on track to become the release coordinator for the team.

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.

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.

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 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

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 • 90%

Bachelor of Science in Information Technology

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

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