

# Imad Ahmad

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## EDUCATION

**Master's of Data Science and Analytics**, *University of Calgary*

Graduated August 2023

**Bachelor of Science in Integrated Science**, *University of British Columbia*

Graduated May 2020

Specialization: Physiology and Psychology

## WORK EXPERIENCE

**Junior Data Scientist**, *EvolveLab*

September 2023 – Present

- Used PyTorch with scikit-learn in Python to employ unsupervised machine learning techniques to perform customer segmentation on 400GB of unstructured data, resulting in a 25% increase in engagement through targeted marketing.
- Cleaned and feature engineered 250GB of user data utilizing Apache Spark on AWS EMR resulting in the creation of 20 refined datasets, allowing for the extraction of over 25 distinct user patterns.
- Demonstrated exceptional adaptability in the startup setting by assuming multiple tech responsibilities beyond data science, including database management, ETL pipeline optimization, and backend software development.

**Laboratory Data Assistant**, *LifeLabs*

August 2021 – April 2022

- Designed and implemented 15+ complex DAGs (Directed Acyclic Graphs) using Apache Airflow to automate ETL pipelines, reducing data processing time by 40%.
- Executed SQL queries on COVID-19 test specimen data, enabling comprehensive and efficient data extraction for over 1000 COVID-19 test specimens per day.
- Crafted insightful data visualizations in Tableau to drive decisions on COVID-19 testing, therefor increasing staffing proficiency at testing locations.

**Statistical Researcher**, *Vancouver General Hospital Medical Research Group*

May 2020 – December 2020

- Utilized advanced statistical methods in Python to explore the gender disparity in Physiology departments.
- Authored research findings for publication as first author in peer reviewed scientific journal through robust scientific communication and scholarly writing skills.
- Ahmad, Imad**, and Najib U Khan. "Sex Disparity Among Faculty of Physiology in North American Academia: Differences in Scholarly Productivity and Academic Rank." *Cureus* vol. 12,12 e11850. 2 Dec. 2020, doi:10.7759/cureus.11850 [https://pubmed.ncbi.nlm.nih.gov/33409087/]

## SKILLS

**Programming Languages:** Python, R, SQL, Java, JavaScript, HTML, CSS

**Big Data and Analytics Tools:** MySQL, Spark, Hadoop, MongoDB, Kafka, AWS database services, Tableau

**Machine Learning:** scikit-learn, TensorFlow, PyTorch, matplotlib, scipy, Supervised and Unsupervised Learning Algorithms, A/B testing, Hypothesis testing, Time series, Statistics

## PROFESSIONAL CERTIFICATIONS

**[AWS Certified Cloud Practitioner](#)**, *Amazon Web Services*

August 2023

## HIGHLIGHTED PROJECTS

**Recycling Image Classifying Robot** [https://github.com/imadahmad97/garbage-image-classifier]

- Developed and deployed Convolutional Neural Network in TensorFlow to accurately classify images of waste, achieving 85% accuracy in image classification.
- Processed over 10,000 labelled images of waste using Python's OpenCV library, collected from both Kaggle datasets and web scraped with Python's Selenium library.
- Enabled real-time waste classification by transferring the built model onto a Raspberry Pi powered robot: [https://youtu.be/s5CwtBsv\_bo].

**Chessalytics** [https://medium.com/@imadahmad97]

- Published an insightful Medium article where I analyze four years' worth of my personal game data from Chess.com.
- Employed both Tableau and Plotly to craft interactive visuals for the blog post, enhancing reader engagement.
- Demonstrated a robust understanding of data analysis and presentation through powerful insights, underlining data-driven decision making.