

# Imad Ahmad

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## EDUCATION

**Masters in Data Science and Analytics**, *University of Calgary*

Graduated August 2023

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

Graduated May 2020

## WORK EXPERIENCE

**Laboratory Data Assistant**, *LifeLabs*

August 2021 – April 2022

- Executed **SQL** queries on COVID-19 test specimen data, enabling comprehensive and efficient data extraction for over 1000 COVID-19 test specimens per day.
- Utilized macros to increase efficiency of data redundancy checks.

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

May 2020 – December 2020

- Utilized advanced statistical methods in **Python** and STATA to explore the gender disparity in Physiology departments throughout North America.
- Authored research findings in strong scientific language for publication as **First Author** in scientific journal.
- [Publication](#): 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

**Intern**, *UBC Family Practice Clinic*

October 2019 – May 2020

- Translated patient data into compelling visual presentations for staff meetings to promote data-driven discussions, resulting in a 45% increase in data-based decision-making within the first quarter of implementation.
- Cleaned and organized patient data into MySQL database, providing an efficient way to automate tasks and extract patient data when needed.
- Developed a customized mass email system for effective communication, facilitating prompt notifications regarding COVID-19 and strengthening patient-provider communication, leading to a 60% increase in communication time.

## TECHNICAL SKILLS

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

**Database/Data Warehouse**: MySQL, PostgreSQL, MongoDB, Amazon Redshift, Snowflake

**Big Data/Cloud**: Kafka, Spark, Hadoop, AWS Certified

**Analytics/BI**: Tableau, PowerBI, Python visualization libraries

**Machine Learning**: scikit-learn, TensorFlow, PyTorch, statistical ML techniques

## PROFESSIONAL CERTIFICATIONS

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

August 2023

## HIGHLIGHTED PROJECTS

[Recycling Image Classifying Robot](#)

- Developed **TensorFlow-based Convolutional Neural Network** to accurately classify images of waste.
- Built **Neural Network** model on images from Kaggle and **web-scraped** images using the **Selenium** library to attain **85% accuracy**.
- Enabled real-time waste classification by transferring the built model onto a Raspberry Pi powered robot ([video](#)).

[CSVanalysis.com](#)

- Developed and launched a user-friendly website that provides users with a preliminary analysis of their data, promoting ease of access to powerful analytics with over **30 monthly users**.
- Leveraged **Pandas** and **Flask** libraries to enable swift processing and analysis of uploaded CSV, enhancing user experience and processing speed by 50%.
- Devised a data storage solution using **MariaDB**, providing efficient storage of uploaded files in a **SQL Database** and streamlining data management to allow instant access to files.