

Imad Ahmad

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SUMMARY

Passionate and driven data professional with a robust background in Python, machine learning, software engineering and data analytics. Strong technical and communication skills gained through working as a statistical researcher (publication below), laboratory data assistant, junior data engineer, and even building a trash classifying robot (video below)!

EDUCATION

Master's of Data Science and Analytics

University of Calgary • 2023 • 4.00

- Courses in Data Visualization and Analysis, Data Engineering and Cloud Infrastructures, Machine Learning and Generative AI, Math and Statistics

Bachelor of Science in Integrated Science

University of British Columbia • 2020 • 3.90

- Specialization: Computer Science & Physiology

EXPERIENCE

Junior Data Scientist

EvolveLab

September 2023 - March 2024, Vancouver, BC

- Accomplished a 25% increase in marketing engagement by employing **unsupervised machine learning** techniques with **PyTorch** and **scikit-learn** in **Python** to segment 400GB of unstructured data, integrating **CI/CD workflows** and **Kubernetes** for scalable deployment.
- Achieved the creation of 20 refined datasets, as measured by the extraction of over 25 distinct user patterns, by **cleaning and feature engineering** 250GB of user data using **Apache Spark** on **AWS EMR**, and automating processes with **Terraform** and **Jenkins**.
- Accomplished enhanced **ETL pipeline optimization** and **backend software development**, as measured by improved data throughput and system resilience, by assuming diverse tech responsibilities in a startup setting, including **database management** and utilizing **Docker** for environment consistency.

Laboratory Data Assistant

LifeLabs

August 2021 - July 2022, Vancouver, BC

- Accomplished a 40% reduction in data processing time by designing and implementing over 15 **complex DAGs** using **Apache Airflow** to **automate ETL pipelines**, incorporating **GitOps** for version control and **CI/CD pipelines** to streamline updates and maintain system integrity.
- Achieved comprehensive and efficient data extraction for over 1000 COVID-19 test specimens per day by executing **SQL** queries, enhanced with **Prometheus** for real-time monitoring and **Grafana** for performance dashboards to optimize query execution.
- Enhanced staffing proficiency at COVID-19 testing locations by crafting insightful data visualizations in **Tableau**, integrating with **Jenkins** for automated updates of dashboards and employing **Docker** containers to ensure consistent runtime environments.

SKILLS

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

Analytics/DevOps Tools: SQL, Spark, Hadoop, MongoDB, Kafka, AWS certified, Tableau, CI/CD, GitHub, Docker, Shell, over 5 years of programming experience

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

PROJECTS

Recycling Image Classifying Robot

https://youtu.be/s5CwtBsv_bo

- Developed a web-based application featuring a **Convolutional Neural Network**, built with **TensorFlow**, that classifies waste images with 85% accuracy.
- Managed and analyzed over 10,000 labeled waste images with **Python** and the **OpenCV** library, sourced from **Kaggle** datasets and web scraping with **Selenium**, to use in training.
- Integrated the model into a **Raspberry Pi robot**, enabling real-time waste classification and demonstrating the model's practical application in dynamic environments.

Exploring The Gender Disparity In Physiology Departments

<https://pubmed.ncbi.nlm.nih.gov/33409087/>

- Utilized advanced statistical methods in **Python** to explore the gender disparity in Physiology departments for over 2000 faculty members, contributing valuable insights into diversity dynamics within academic settings.
- Authored and **successfully published** research in a peer-reviewed journal as the **first author**, demonstrating proficiency in scientific communication and scholarly writing.
- 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.

CERTIFICATIONS

AWS Certified Cloud Practitioner

https://www.credly.com/badges/22444eaa-2cfa-4a7d-ade2-4608ca8922a0/public_url • 2023