

# KUSHAL MOHEE

AI/MLOPS ENGINEER

📍 Relocating to the UK

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📄 [github.com/kmohee](https://github.com/kmohee)

🌐 <https://kmohee.github.com>

## PROFILE

Experienced AI/MLOps Engineer with a strong foundation in deploying scalable machine learning systems using MLOps practices. Proficient in model development with PyTorch and data processing with SQL, Spark and Databricks. Skilled in infrastructure automation using Terraform and orchestrating containerized workflows with Kubernetes. Adept at bridging the gap between research and production to deliver robust, maintainable AI solutions.

## SKILLS

Python	<div><div></div></div>
SQL	<div><div></div></div>
Bash	<div><div></div></div>
Go	<div><div></div></div>
Git	<div><div></div></div>
Terraform	<div><div></div></div>

## STACK

**Data Engineer** - Databricks | EMR | Pyspark  
**Data Science** - Tensorflow | Pytorch | Numpy | Pandas  
**Cloud** - AWS | Azure  
**MLOps/Infra** - Terraform | Kubernetes | MLFlow | Docker | Prometheus | Helm | Istio  
**Data Visualization** - Looker | Tableau | Dash-Plotly | Grafana | Seaborn  
**CICD** - Gitlab Pipelines, Github Actions

## WORK EXPERIENCE

### Boeing - Vancouver, BC

#### AI DevOps Engineer

Aug. 2024 - Present

- Provisioned Azure Infrastructure including Kubernetes using Terraform and Gitlab Pipelines to automate ML infrastructure deployment cutting time-to-deployment by half.
- Optimized similarity search app (pytorch code) to return queries in 6s instead of 5mins.
- Assisted in designing an ML Inference Pipeline to create a new feature to be displayed on a dashboard.

### ProCogia | Getty Images (Client) - Vancouver, BC

#### Data/MLOps Engineer

Jul. 2023 - Jul. 2024

- Reduced ML model retraining time from a labour-intensive 30-day effort to a 5-day process by implementing a multi-pipeline system in Gitlab, Python and AWS.
- Increasing the speed of Spark ETL jobs from 10 hours to 1 hour, thereby significantly reducing the time required to pull data for ML training.
- Developed an AWS EMR Cluster monitoring solution using Prometheus and Grafana, implemented through Terraform, saving data scientists valuable hours and enhancing overall productivity
- Realized cost savings of \$20-30 per hour of idle time per data scientist for EMR clusters by successfully implementing an auto-termination system using AWS CloudWatch, SNS, and Lambda.

### VINN Automotive Technologies Limited - Victoria, BC

#### Data Engineer

Jan. 2022 - Apr. 2023

- Empowered executive decision-making by automating Databricks SQL pipelines for data extraction and architecting a Looker dashboard to visualize marketing data. This initiative resulted in \$100/day in cost savings within the ad spend budget, optimizing resource allocation and driving decisions based on real-time data analytics.
- Developed a robust ETL solution to ingest and process gigabytes of data using PySpark code and integrated it with external systems using RESTful APIs, resulting in a 5X increase in processing speed.
- Developed an MLOps pipeline to put Tensorflow deep learning models in production for vehicle recognition.

#### Jr. Data Engineer

Aug. 2021 - Dec. 2021

- Designed and implemented an AWS Lex chatbot integrated with Facebook Messenger, enabling real-time communication with customers and effectively addressing their concerns, improving customer satisfaction.
- Deployed and maintained a Flask web app on Heroku for another team to clean raw data, and send KPIs to partners.
- Implemented a scraper tool to double the size of datasets for data scientists to train image recognition models.

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## EDUCATION

### University of Edinburgh

**Master of Science in Artificial Intelligence**

2025 - 2026

Starting Autumn 2025

### University of British Columbia

**Master of Management (Sauder School of Business)**

2020 - 2021

A broad spectrum of business fundamental disciplines, including finance, strategic management and operations.

**Bachelor of Science**

2016 - 2020

Major: Cognitive Systems (Computational Intelligence and Design) - Dean's Honour List

## PROJECTS

### Conservation Compass - <https://theconservationcompass.github.io/education/index.html>

- Co-founded Conservation Compass, an educational website promoting environmental conservation and actionable steps for individuals and communities.
- Developed the front-end using HTML, CSS, and JavaScript, and integrated interactive dashboards to enhance user engagement.
- Pulled and cleaned biodiversity data from the NBN (National Biodiversity Network) Atlas API, visualized it using custom dashboards, and embedded them seamlessly into the website.

### Evolutionary Camouflage - <https://kmohee.github.io/EvolutionaryCamouflage/index.html>

- Designed and implemented Evolutionary Camouflage, a Unity-based simulation demonstrating how genetic algorithms adapt organisms to their environments.
- Modeled a digital aquatic environment using RGB color values, enabling fish to evolve camouflage traits over time.
- Developed the simulation in C# with Unity, showcasing principles of natural selection and adaptation through visually engaging mechanics.

## CERTIFICATIONS

Databricks Certified Data Engineer Associate - Apr. 2023

AWS Certified Cloud Practitioner – Jan. 2023

Databricks Spark Certified Developer – Nov. 2022

## LANGUAGES

English - Fluent

French - Fluent

Mauritian Creole - Native