

**Muhammed Yusuf Dada, MSc.** Mobile : 289-244-4108

Data Engineer & Product Manager | Kingston, ON, Canada

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**Authorized to work in Canada for any employer, Open to relocate**

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Summary: Data Engineer proficient in Python, PowerBI and Spark. I've enhanced established analytics pipelines and also built scalable data-centric solutions from scratch in domains ranging from brand management consulting to AI ethics. So far, my experience has been a blend of data engineering and software and I would love to grow further in data analytics coupled with product management.

## SKILLS

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Programming Languages: Proficient in **Python**, Javascript, **SQL**.

Analytics and Data Science: **PowerBI**, **Spark (pySpark and SparkSQL)**, NLP techniques, LLM Fine-Tuning, Scikit-learn

Full Stack Software Development: Some experience in React.js, NodeJS/Express, Django, PostgreSQL

Other: **Azure**, **Databricks**, **Agile**, **JIRA**, CI/CD, Git, Testing

## EXPERIENCE

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### Queen's University

Kingston, ON, Canada

*AI & Data Researcher*

*Sept 2023 – Aug 2024*

- **Fine-tuned & aligned open-source AI Chat models (LLM)** to generate performance-improving code-edits for Python and C++. Achieved code optimization of 70% of samples, runtime reduction of up to 78% and 3x speed up.
- Analyzed the nationality bias and privacy leakages in cutting-edge AI models (LLM) creating a novel and metrics based benchmark for guiding AI integration decisions. Found that Meta's Llama2 has fewer guardrails than ChatGPT.

### Global Changer

Berlin, Germany

*AI Software Engineer*

*Mar 2023 – Aug 2023*

- Created a Carbon Accounting module and CO2 emissions estimator to help companies analyze and report their carbon footprint in compliance with EU regulations. This estimator, based on extensive past emissions data, eliminated the need for third-party carbon emission consulting for 70% of our clients.
- Led the introduction of an **AI-based pipeline** to automatically generate economic codes based on client production factors for carbon auditing **improving platform onboarding time for new business users by 80%**.

### Odoo

Dubai, United Arab Emirates

*Software Engineer*

*Apr 2021 – Sept 2022*

- Developed modules to grow Odoo's PaaS and SaaS platform across multiple enterprise application verticals including Inventory, E-Commerce, HR, Accounting, Sales and Manufacturing (Tools: Python, Javascript).
- Automated consignment and commission-on-sale accounting flows reducing manual reconciliation by 100%.
- Integrated Google Maps and reverse geocoding into CRM application and connected inventory management with regional shipping providers thereby reducing the number of clicks in the global process flow by 70%.

### APCO Worldwide

Dubai, United Arab Emirates

*Data Engineer - Analytics and Insights*

*May 2020 – Apr 2021*

- Built data analytics and visualization applications from the ground up based on NLP data for numerous big pharma clients allowing for custom drill-down analysis of insights (Tools: PowerBI, Python, SQL, Spark, FastAPI).
- Performed Topic Modelling and Named Entity Recognition with contextual embeddings on 50k+ tweets mined (**word2vec, LDA, BERT, GPT**).
- Created a bot automating client social perception report generation based on clients' social media and KPIs. **Costs reduced from 2 days manual work to 5 minutes automated** (Tools: Python, Selenium, Databricks, Azure).

## EDUCATION

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### Queen's University

Kingston, ON, Canada

**Master of Science**, Computer Science. GPA: 4.0. Awarded NSERC CREATE scholarship

*Sept 2023 - Aug 2024*

### American University of Sharjah (AUS)

Sharjah, United Arab Emirates

**Bachelor of Science**, Computer Science. CGPA: 3.77 Magna Cum Laude Honors. Chancellor's List Scholarship

*Aug 2016 – May 2020*