Muhammed Yusuf Dada, MSc.   Mobile : 289-244-4108   Email: muhammed.yusuf.dada@gmail.com

Data & Software Engineer | Kingston, ON, Canada   linkedin.com/in/muhammed-yusuf-dada

Authorized to work in Canada for any employer, Open to relocate   **Website:** https://muhammedyusuf678.github.io

Summary: Data & Software Engineer proficient in Python, PowerBI, Spark, and web development. I've enhanced established analytics pipelines and also built scalable data-centric solutions from scratch in domains ranging from brand management to business management software. So far, my experience has been a blend of data engineering and software and I would love to grow and develop myself cross-functionally.

SKILLS

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: Proficient in **React.js, NodeJS/Express, Django, PostgreSQL**

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

EXPERIENCE

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
Software Engineer   *Mar 2023 – Aug 2023*

- Created a Carbon Accounting module and CO_2 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

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*