MUHAMMAD OMAR MUHDHAR

+1-817-918-5961 | muhammad_muhdhar@berkeley.edu | https://www.linkedin.com/in/muhammad-omar-muhdhar/
https://github.com/MuhammadOmarMuhdhar

TECHNICAL SKILLS

- **Programming & Data Engineering:** Python, SQL, R, Excel, Azure SQL Server, Azure Cosmos DB, Google BigQuery
- **Business Systems & Workflow Automation:** Power Automate, Power Apps, SharePoint, Tableau, Power BI
- **Machine Learning:** Supervised learning, Unsupervised Learning, NLP (spaCy, scikit-learn)

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY   May 2025
Master of Arts in Computational Social Sciences

UNIVERSITY OF TEXAS AT AUSTIN   September 2022
Bachelor of Arts in Government with Honors and a Minor in Philosophy

PROFESSIONAL EXPERIENCE

Data Scientist Intern, *Center for Effective Global Action*   January 2025 - May 2025

- Integrated multiple third-party APIs (OpenAlex, CrossRef, PubMed) to build a centralized poverty studies database in Google BigQuery, developing a Python-based ETL pipeline to extract and process metadata for 500,000+ academic papers spanning two decades.
- Developed a Python classification system using scikit-learn to automatically categorize and filter research papers.
- Designed a Streamlit dashboard interface that displays the categorized research data via interactive visualizations, enabling stakeholders to extract research intelligence for evidence-driven research prioritization.
- Managed the complete project lifecycle; defining requirements with stakeholders, overseeing architecture, implementing quality control measures, and conducting user training for platform adoption.

Business Analyst, *Ernst & Young Business Consulting*   July 2022 - August 2024

- Oversaw financial data operations for 4 private equity funds ($4B AUM) using Excel, ensuring data accuracy across capital calls, distributions, Net Asset Value calculations, and regulatory reporting.
- Led migration of fund data from manual Excel workflows to Azure SQL Server, establishing scalable data infrastructure.
- Built Power BI dashboards tracking key performance indicators for document processing turnaround times, approval bottlenecks, and process compliance rates to enable data-driven decision making.
- Automated financial document workflows using Power Apps and SharePoint, eliminating manual email handoffs and reducing processing time from hours to minutes.

Marketing Communications Writer, *University of Texas at Austin Computer Science*   Sept 2020 - May 2022

- Produced web content, feature articles, and social media campaigns to communicate research, events, and academic initiatives to diverse audiences.
- Collaborated with analytics and SEO teams to track engagement through Google Analytics, leveraging performance insights to inform content strategy and editorial priorities.

PROJECTS

California State Employee Return-to-Office Impact Analysis   March 2025

- Created Tableau report analyzing California's return-to-office mandate impact on 220,000 state employees, quantifying commute and environmental effects.

Text Visualization Library   Ongoing

- Developing a Python library for advanced text data visualization using modern NLP techniques.