

EXPERIENCE //

— NCEH/ATSDR Public Health Informatics & Analytics Team Centers for Disease Control and Prevention | Atlanta, GA

Data Scientist, September 2024 — Present

- Managing the development of PowerBI dashboards end-to-end, maintaining 8, with an additional 4 in-development and 4 in enhancement phases, ensuring product delivery, visual impact, and strategic insights to stakeholders.
- Performing data validation and data quality analysis on the center's publications database with data extraction from two different APIs, redeveloping aspects of the data pipeline in Databricks to improve data quality, and eliminating data duplication by 20%.
- Orchestrated 9 data ingestion pipelines in Azure Data Factory to move and migrate data from SQL databases to dataverse to streamline business processes through automation.
- Deployed a custom optical character recognition (OCR) model achieving a 98% performance accuracy in extracting handwritten text from 889 compliance forms in an automated document submission workflow through Microsoft AI Builder and Power Automate.
- Developed a retrieval-augmented generation (RAG) chatbot agent as a proof of concept in Copilot Studio to orchestrate knowledge retrieval from a cloud database, validate data features, and automate document submission in a chat interface with real-time user response.

Data Engineer & Visualization Fellow, August 2023 — August 2024

- Engaged with various stakeholders including IT governance, cybersecurity, data modernization, and scientific clearance to collect and translate business requirements into data specifications for data modeling, dashboard design, and development of analytic tracking tools.
- Designed and developed 6 analytic dashboards within 9 months, achieving dynamic visuals exceeding stakeholder specifications and launching dashboards into production ahead of expected timelines.
- Improved operational transparency in the scientific clearance process by implementing an algorithm to calculate, track, and extract time-based clearance routing metrics for use in data visualizations.
- Awarded the director's award for excellence in data transparency through the development and implementation of PowerBI dashboards that improve operational performance and transparency in scientific clearance.

— ArtCenter College of Design | Pasadena, CA

Assistant Registrar & Data Auditor, July 2021 — November 2022

- Digitized graduation forms using an HTML web-based form builder and developed a systematized process for diploma verification, packaging, and delivery.
- Analyzed, evaluated, and validated 300+ degree audit reports within a 4-week period, 3 times/year, and managed follow-up communication to stakeholders ensuring report completeness by 99%.
- Streamlined logistics and planning of graduation ceremonies 3 times/year, by implementing targeted outreach strategies using digital platforms to improve event participation.
- Served as liaison to 9 departments and collaborated with department staff to build curriculum and enrollment scheduling by term deadlines, resulting in 100% department compliance.

SKILLS //

Data Visualization & BI: PowerBI, Tableau, Matplotlib, Seaborn, ggplot2.

Programming & Data Analysis: Python (Pandas, NumPy, Sci-Kit Learn), R, SQL.

Orchestration & Cloud Tools: Databricks, Azure Data Factory, Power Automate, Dataverse.

Machine Learning & AI: AI Builder, Copilot Studio, OCR Models, TensorFlow, Keras, Random Forest, SVM, GBoost.

EDUCATION //

Jarvis College of Computing and Digital Media at DePaul University (DPU) | Chicago, IL

Master of Science in Data Science concentration in Computational Methods with Distinction | November 2022

CERTIFICATES //

AI Engineering | IBM // Credential ID 6G6KQ6LFTV09 | September 2024

Machine Learning | Stanford University, DeepLearning.AI // Credential ID 78KSKS5B6CXN | December 2023