ALEXANDER MCINTOSH

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EDUCATION

Statistics and Data Science MicroMasters - MIT via edX

Dec. 2023

• PyTorch | Neural Networks | Natural Language Processing | Statistical Inference | High Dimensional Analysis

Bachelor of Arts in Physics - Saint John's University - Collegeville, MN

Dec. 2021

• Minors in Mathematics and Music | Phi Beta Kappa Key Holder | Men's Chorus President

CERTIFICATIONS

SQL for Data Science Specialization - University of California, Davis via Coursera

Feb. 2023

• SQL | Apache Spark | Databricks | Distributed Computing | Business Intelligence

Azure Data Scientist Associate - Microsoft

Jan. 2023

• TensorFlow | Distributed Computing | Databricks | MLOps | Distributed Databases

Applied Data Science with Python Specialization - University of Michigan via Coursera Nov. 2022

• Python | NumPy | Pandas | scikit-learn | matplotlib | Seaborn | NLTK | Network Analysis | Data Mining

Data Science Professional Certificate - Harvard University via edX

Aug. 2022

• R | Tidyverse | ggplot2 | Git | Data Wrangling | Visualization | Inference | Machine Learning

WORK EXPERIENCE

Optum, Generative AI Analyst

Jul. 2023 - Present

- Engineer a large language model to perform complex analysis by generating and executing SQL and Python
- Implement a retrieval-augmented generation pattern to inject business segment-specific metadata and definitions
- Analyze high dimensional text embedding with dimension reduction techniques to improve semantic comparisons
- Test generative artificial intelligence output for veracity, quality, and safety
- Develop a conversational Azure bot in JavaScript, deployed in a cloud environment
- Evaluate various time series models on forecast error and anomaly detection rates for key performance indicators
- Author press release materials, documentation, and deliver presentations to stakeholders

Constelleum LLC, Software Developer

Mar. 2020 - Jul. 2023

- Designed an accessibile multiplayer online video game written in GDScript
- Automated testing and validation for server-side and client-side computational code
- Analyzed event logs to identify trends and inform balanced design

Employment Specialist, Stevens County DAC

Jan. 2022 - May 2022

- Delivered employment training and services to Stevens County residents with disabilities
- Implemented Minnesota state policies and educated administrators and job coaches on updates
- Crafted and executed employment plans, overseeing a team of 8 job coaches

Job Coach, Stevens County DAC

Oct. 2021 - Jan. 2022

- Coached 30+ individuals on job expectations and responsibilities
- · Organized and led customized enrichment activities for accessibility service recipients