

Joe Mendez-Hughes

[Website](#) | [LinkedIn](#) | joemendezhughes@gmail.com | 1-480-220-8939 | Phoenix, AZ | U.S. Citizen

SUMMARY

Real-world experienced AI engineer who has built real AI/ML models and applications in production environments.

SKILLS

Python, Pandas, NumPy, scikit-learn, PyTorch, NLP, LLMs, RAGs, Diffusion Models, APIs, Git, AWS, Azure, GCP

PROFESSIONAL EXPERIENCE

SENIOR AI ENGINEER

Dynamo Technologies, Washington, DC

September 2023 - May 2024

- Designed and deployed an AI-driven reporting system using NLP techniques with RAGs and LLMs to extract insights from government reports and unstructured data.
- Developed predictive analytics models using Python and machine learning techniques to forecast trend-based personnel deployment strategies.
- Engineered AI tools using PyTorch and data pipelines in pandas and NumPy to analyze complex health datasets at local and national levels.
- Refined AI reporting models through iterative machine learning processes using Python and scikit-learn to increase reporting accuracy by 35%.
- Architected AI-driven analytics into the business intelligence platform, reducing manual reporting by 50%.

MACHINE LEARNING ENGINEER

Deep Cloud IQ, New York, NY

July 2021 – September 2023

- Engineered a robust sentiment analysis tracker, empowering administrators to detect early signs of disengagement or distress, allowing for timely interventions.
- Spearheaded the creation of a dynamic machine learning pipeline utilizing PyTorch and scikit-learn to analyze student performance data and provide targeted improvement strategies.
- Collaborated with Google engineers to design a scalable NLP pipeline using proprietary datasets.
- Created a suite of software that included chat applications, analytical tools, and administrative tools tuned with machine learning that offered an all-encompassing view of student health and behavior.

SOFTWARE ENGINEER

Millennial Shift Technologies, Phoenix, AZ

October 2020 – June 2021

- Delivered complex integrations by developing and deploying SOAP and REST APIs.

JR DATA SCIENTIST

Prizelogic, Scottsdale, AZ

February 2018 – May 2020

- Implemented data cleaning and preprocessing techniques, including handling missing data, outlier detection, and feature scaling, to ensure data integrity.
- Conducted exploratory data analysis (EDA) on large datasets to identify key trends, correlations, and patterns, contributing to data-driven decision-making.

EDUCATION

Studied: Computer Science

College of Southern Nevada, Las Vegas, NV

January 2014 – May 2017