**J****oe Mendez-Hughes**

[Website](https://saving-the-world-from-ai.github.io/) | [LinkedIn](https://www.linkedin.com/in/joe-mendez-hughes/) | [joemendezhughes@gmail.com](mailto: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