

Francisco Arriaga

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Applying for

Machine Learning Engineer

Summary

Machine Learning/AI Engineer specialized in deep learning and computer vision. My work has focused primarily in generative modeling and recommender systems. A mixed background in mathematics, psychology, and computer science allows me to approach problems with technical rigor without foregoing explainability. I leverage years of experience as an academic researcher as well as a Machine Learning engineer and Statistical Research Analyst for industry.

Technical Skills

Languages	Technologies	Concepts
Python	PyTorch & Tensorflow	Deep Learning
SQL	Numpy & Pandas	Computer Vision
Java	OpenCV & Sci-Kit learn	Recommender Systems
R	Docker	Artificial Intelligence
JavaScript	Next Js	Machine Learning

Industry Experience

MediTrak Life, Inc. <i>Machine Learning Engineer</i> <ul style="list-style-type: none">Lead the development of the ML back end of a system that helps users regulate blood pressure through behavioral recommendations derived from XGBoost regressors.Improved over state-of-the-art by a factor of 8% through augmentations and transfer learning to personalize the recommender algorithm to each user.	Dec 2023 – Present <i>West Lafayette, IN (remote)</i>
El Paso Community College <i>Statistical Research Analyst</i> <ul style="list-style-type: none">Brought in over \$5M of grant funds by providing statistical evidence of advising program performance.Maintained and queried relational database of student academic data for over 30,000 students. (SQL)Established a data pipeline to automatize reporting processes, reducing over head by over 200%.	Jan 2019 – Present <i>El Paso, TX</i>

Research Experience

Graduate Research Assistant <i>PyTorch, TensorFlow, OpenCV, SciKit Learn, Docker, Numpy</i> <ul style="list-style-type: none">Designed and implemented a 2D animation inbetweenner using Generative Adversarial Networks and autoencoders (Generative Deep Learning - AI).Extracted dataset of over 800k triplets (sequence of 3 consecutive frames) directly from scrapped videos using Shot-Detection algorithms.Implemented an image retrieval system using pre-trained VGG-19 embeddings.
Undergraduate Research Assistant <i>LLMs, Java, Python, Pandas</i> <ul style="list-style-type: none">Implemented a tv-show and movies recommender system integrating personality scores.Created databases and established pipelines for 26 million ratings from over 470,000 users.Implemented a language-based recommender system using a classical vector space model and pre-trained LLM embeddings.

Education

MS in Artificial Intelligence	University of Texas at El Paso
BS in Mathematics & Psychology	University of Texas at El Paso