Jeremy Gerard

Machine Learning Engineer

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Summary

Cross-disciplined technologist, developer, and machine learning engineer with a neuroscience background and a passion for learning and problem solving, seeking to further a career in applied technology. Most interested in a role which demands and cultivates a diverse range of knowledge and technical aptitude, adaptive critical thinking, and creative solution design.

Experience

Machine Learning Engineer - Clearview AI 2022 - 2023

· Architected and implemented company-wide MLOps strategy

· Used ChatGPT for entity extraction from metadata

· Built and deployed multiple cutting-edge computer vision models for presentation attack detection and identity verification

· Standardized production ecosystem across machine learning frameworks, architecture and deployment, including unit testing and model optimization for CPU and GPU

· Delivered image enhancement and exposure correction algorithms used by investigators to assist in facial recognition from poor-quality photos

Lead Developer Applications, Emerging Technology - Tyson Foods 2018 - 2021

· Successfully architected and led the successful development and deployment of a diverse range of projects and soultions around ML, CV, hyperspectral imaging, IoT, robotics - most of which were recognized company-wide for their success in integrating new technologies ito the business for th first time, and enabling unprecedented improvements in business operations through data and automation

· Spearheaded the architecture, development, and implementation of two separate end-to-end MLOps pipelines in AWS to autonomously handle image collection from edge to cloud, image annotation and curation, model training and evaluation, and model deployment back to the edge

· Listed as a principal inventor on a pending patent for the design and architecture of a novel solution which autonomously measures internal temperature of cooked food products using a robotic arm, a 3D linescan camera, and an infrared camera

· Acted as data science lead for company-wide COVID-19 response effort. Devised forecasting, risk evaluation, and transmission rate factro models and personally develop4d a NRT-interactive dashboard and front-end used by Tyson's ELT

IT Systems Analyst - Hewlett Packard Enterprise 2016 - 2018

· Front-end optimization technical lead for www.hpe.com

· Owned and managed domain portfolio for enterprise-wide customer-facing webspace

· DNS & Traffic Management Support Team technical lead

· QA and IT support for company-wide customer-facing webspace with emphasis on DNS, traffic management, global content delivery, hosting infrastructure, and SSL

Research Associate / Project Manager - Neural Instrumentation Lab 2009 - 2012

· Developed an adaptive motor control system based on cerebellar neuronal microcircuitry that used recurrent feedback from a visual error signal to dynamically improve kinematic accuracy of a self-built pneumatic robotic arm

· Implemented original machine learning and motion-tracking algorithms and software

Education

Bachelor's Degree in Neuroscience & Mathematics - Temple University 2008 - 2011

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