

Jesse Ragsdale Machine Learning Engineer | Data Scientist Hayfork, CA |

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TECHNICAL SKILLS

Development: C, C++, C#, React Native, Python, NumPy, Pandas, Scikit-learn, SQL, R, Excel, TensorFlow, PyTorch, Keras, Scala, Spark, Flask, Plotly **Additional:** Dash, Matplotlib, Heroku, Data/K-Cluster/Predictive Analysis, Multivariate Regressions, Machine Learning

PROJECTS

Privacy Compliance Video Processor, Machine Learning Engineer [GitHub](#) • Developed "Face-Off," a script using OpenCV and TensorFlow to blur faces in video, ensuring adherence to privacy laws during data collection for ASL video datasets. • Utilized both Haar Cascades and a DNN model trained on the WIDER FACES dataset for accurate face detection across varied video conditions. • Enhanced script efficiency for real-time processing capabilities, achieving significant improvements in video processing times: Haar-based method at approximately 8.84 seconds, DNN-based method at approximately 3.41 seconds for standard video lengths. • Ensured the final output maintained high privacy standards by employing advanced masking and blurring techniques.

Eyeth Contractor Earnings, Data Scientist [GitHub](#) • Processed and analyzed 12 months of payment data for contractors at Eyeth Studios using Python • Conducted exploratory data analysis to gain insights into payment patterns and contractor earnings • Cleaned the dataset by dropping unnecessary columns using the Pandas library • Created a new DataFrame with contractors' names and their total earnings for each year by grouping data based on the "Pay to" column and generated a calculated list for each individual using the "value_counts()" method from Pandas • Exported the contractor 2022 earnings data to an Excel file using Pandas "to_excel()" method

3D printed RC Tank, Project Lead [GitHub](#) • Utilized 3D printer to design and print track parts and built an active tank with a stainless steel frame that enclosed 2 motors, a 3D printed worm gear transmission, case for the worm gears, ECU, and battery storage • Installed a Raspberry Pi and wrote a Python script to configure Bluetooth controls using Nintendo Switch Pro

EXPERIENCE

GoSign.AI, Rochester, NY (Remote) - Machine Learning Software Engineer, July 2023 - September 2024

- Conducted exploratory data analysis (EDA) on chatbot interactions to identify the most frequently discussed topics, enhancing the chatbot's response accuracy and user experience
- Enhanced backend functionalities of the GoSign.AI app, particularly in managing user information, to improve user interface and data flow integrity
- Co-authored a video screening tool to ensure video-to-word accuracy and data cleanliness in ASL dataset preparations, meeting stringent data quality standards
- Developed an annotation tool in collaboration with the team to extract and annotate MediaPipe data and other relevant metadata from ASL videos, streamlining data processing and analysis
- Initiated the development of an iOS game leveraging ASL fingerspelling recognition technology, aimed at making ASL learning interactive and accessible through mobile gaming.

DefCan, LLC, Washington, DC - Scheduler/Payroll Dec 2022 - Present

- Facilitated scheduling and payroll using Fleet Scheduling software systems
- Set up weekly schedules for Customer Service and Delivery Drivers
- Monitored website and portal functionality to maintain internal communications by reducing errors or issues
- Diagnosed and resolved time zone differences in PHP for portal-OnFleet communications for drivers

Eyeth Studios, LLC, Washington, DC - Website development, Project Coordinator, Accountant July 2022 - Present

- Contributed to website development and feature improvements utilizing WordPress
- Onboarded new clients, developed Scope of Work agreements (SOPs) for clients outlining fees and cost for their project, and performed discovery on old websites to document site design/menu structure map
- Tracked expenses, purchases, and wrote invoices/estimates for clients
- Developed and maintained automations related to contracts/invoices and certain website plugins/services

EDUCATION

Coursera - Meta's iOS Dev, Certification (in progress) 2024 - Present

BloomTech, Graduate of the Data Science Program 2022 - 2023

Peralta Training Completion, C, C++, C#, Java, Linguistics 2013 - 2015

Pennsylvania State University, Bachelor's Degree in Anthropology 2006 - 2008

Union County College, Associate's Degree in Communications 2001 - 2003