Landry Houston

Data Scientist
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Hello, I'm Landry Houston, a competitive young professional aiming to advance my career as a Data Scientist. With a technical background in automotive and equipment technology, I excel at efficiently identifying and resolving problems. I enjoy uncovering hidden information and creating data visualizations that convey important insights. I'm excited to keep learning and improving my skills in my career.

SKILLS

Technologies: Python | PostgreSQL | SQLite | R | Power BI | Tableau | HTML | CSS | AWS EC2 | Streamlit | Flask | Jupyter Notebooks | Github | Excel | Word | PowerPoint | VS Code | Slack | Zoom |

Skills: Web Scraping | Data Cleaning | Supervised and Unsupervised Machine Learning (ML) | Predictive Modeling | Data Visualization | Data Analysis | Natural Language Processing |

Libraries: Pandas | NumPy | SciPy | Matplotlib | Seaborn | Scikit-learn | Natural Language Toolkit | Beautiful Soup | Praw | Keras | TensorFlow | Tidyverse | OpenCV | MediaPipe | Pickle |

CERTIFICATIONS

Data Science: Probability | PH125.3x | HarvardX	**08/2023 - 09/2023**
Introduction to SQL | DavidsonX.D007 | DavidsonX	**06/2023 - 08/2023**
Analyzing and Visualizing Data with Power BI | DavidsonX.D005 | DavidsonX	**05/2023 - 06/2023**
Data Science: Visualization | PH125.2x | HarvardX	**05/2023 - 05/2023**
Data Science: R Basics | PH125.1x | HarvardX	**03/2023 - 05/2023**
Introduction to Data Science with Python | CS109x | HarvardX	**02/2023 - 03/2023**
Fat Chance: Probability from the Ground Up | FC1x | HarvardX	**01/2023 - 02/2023**
Scientific Computing with Python | FreeCodeCamp	**12/2022 - 01/2023**
CS50's Introduction to Programming with Python | CS50P | HarvardX	**11/2022 - 12/2022**
Responsive Web Design | FreeCodeCamp	**09/2022 - 11/2022**

PROJECTS

ASL Translator **01/2023 - 01/2023**

- Skills Covered: Jupyter Notebook, Python, OpenCV, MediaPipe, Flask, Tensorflow, Streamlit, Keras, Pandas, Matplotlib, Numpy, Data Visualization.
- I developed an ASL Translator, employing a Convolutional Neural Network (CNN) for image classification and integrating real-time hand detection with OpenCV and MediaPipe. The dataset initially focused on the ASL alphabet, consisting of 174,474 images across 24 classes. The CNN model achieved exceptional accuracy, with a Test Accuracy of 99.19% and a Train Accuracy of 99.96%. Additionally, a Random Forest Classifier with hand landmarks mapped to the images demonstrated impressive accuracy at 99.9%.
- I also created user-friendly web applications with Streamlit and Flask, allowing image uploads and real-time webcam translations, contributing to improved communication between deaf and hearing individuals.

Reddit NLP and API Project **12/2023 - 01/2023**

- Skills Covered: Jupyter Notebook, Python, Pandas, Matplotlib, Seaborn, Scikit-learn, Numpy, Web Scraping, Beautiful Soup, Data Analysis, Data Visualization.
- This project's goal is to utilize an API to scrape subreddits and build a natural language processing model for predicting post origins. I implemented a pipeline with TF-IDF Vectorizer and Logistic Regression, optimized with Grid Search, achieving over 90% prediction accuracy.

Hotdog Image Classifier **01/2023 - 01/2023**

- Skills Covered: Jupyter Notebook, Python, Tensorflow, Streamlit, Keras, Pandas, Matplotlib, Numpy, Data Visualization.
- In a six-hour hackathon, I developed an image classification model for hotdog detection. Additionally, I crafted a user-friendly Streamlit app enabling picture uploads for real-time hotdog predictions.

Flight Price Prediction **01/2023 - 01/2023**

- Skills Covered: Jupyter Notebook, Python, Pandas, Matplotlib, Seaborn, Scikit-learn, Numpy, Data Analysis, Data Visualization.
- My team and I embarked on a project where we designed and implemented a sophisticated Random Forest regression model aimed at predicting flight ticket prices. Leveraging advanced techniques, such as feature importance analysis, we successfully pinpointed crucial predictors within the dataset. Impressively, our model demonstrated exceptional performance, achieving an accuracy rate surpassing 97% with a low Root Mean Square Error (RMSE) of 42.75.

Housing Data Analysis in Ames, Iowa **12/2023 - 12/2023**

- Skills Covered: Jupyter Notebook, Python, Pandas, Matplotlib, Seaborn, Scikit-learn, NumPy, Data Analysis, Data Visualization.
- In this project I analyzed housing data in Ames, Iowa and created a Lasso Regression model that achieved 88% precision in its predictions, predicting sale price within an approximate margin of $21,000.

PROFESSIONAL EXPERIENCE

Service Manager, Best Source LLC. | Las Vegas, Nevada **06/2021 - 11/2023**

- Maintain accurate records of service calls and customer interactions for training and accountability purposes.
- Diagnose and troubleshoot problems, repairing, and restoring machines to peak performance.
- Install new equipment and explain operation and routine maintenance schedules to customers.
- Meet with customers to discuss service needs and offer available solutions.
- Develop and maintain positive relationships with customers to build trust.

Field Service Technician, Crown Equipment Corporation | Henderson, Nevada **12/2019 - 05/2021**

- Followed safety procedures to avoid injuries in the field.
- Replaced damaged, missing, or defective parts with new and refurbished components.
- Investigated customer complaints to identify the cause of malfunctions.
- Coordinated with the parts department to determine price and availability of necessary components.

EDUCATION

General Assembly | Remote **11/2023 - 02/2024**

Data Science Immersive - Certificate

Universal Technical Institute | Avondale, Arizona **11/2019**

Associates of Occupational Studies in Automotive Technology II

- 3.8 GPA
- Ford Fact Graduate
- Awarded Student Of The Course