

Skills

- SQL (SQL Server, MySQL, PostgreSQL)
- Python (Pandas, NumPy, SciPy, Matplotlib, Seaborn, Plotly, Dash)
- RESTful Api's
- TensorFlow/Skikit-Learn
- Tableau/Power BI
- Excel (VLookup, Conditional Formatting, Pivot Tables)
- Git/GitHub
- Docker
- Selenium
- HTML/CSS/JavaScript
- Linux

Education

BACHELOR OF COMPUTER SCIENCE – Utah Valley University – Orem, UT
Data Science Club - Member/Contributor
Deans Honor Roll 2022 Fall, 2023 Spring

Fall 2019 -Fall 2023

Projects

FANTASY FOOTBALL ANALYSIS AND PREDICTIVE MODEL– Personal Project – Orem, UT

August 2023

- Developed Web scraping script with **Selenium** to continuously extract data for Analysis and Model training.
- Used **Python(Seaborn/Plotly)** and **tableau** to perform EDA and create professional Dashboard report
- Performed **data cleaning/feature engineering** to create useful features and remove irrelevant rows
- Used innovation to create multiple Data Viz dashboards using **Tableau** and **Dash** to provide statistical insights.
- Deployed ML Model to the cloud as a **RESTful Api** to be accessed via a page on my portfolio.

USED CAR MARKET EDA/ML MODEL – Personal Project – Orem, UT

June 2023

- Utilized **Python, SQL** to analyze 3 million used car listings and gain key insights on the state of the market.
- Implemented **Regex** techniques to comb through the listing descriptions and turn them into useful features.
- Aggregated and visualized the data by using **matplotlib, seaborn** and **Tableau** to compile a professional report.
- Performed **Statistical Data cleaning** removing outliers and used various **data imputation** techniques to fill Null values.
- Used cleaned data to train a **TensorFlow** decision tree regressor to predict new used car prices, with a RMSE score of \$5300

DATABASE CREATION FOR MECHANIC SHOP – Project Proposal for “The inspection station” – Orem, UT

February 2023

- **Gathered requirements** from shop owner, created Database Schema then implemented on **SQL-Workbench**
- Innovatively created **stored queries** based on the shops most common data needs/questions from 8 different tables
- Created Various **stored procedures** for future data retrieval, data transformation, data validation and business logic.

WIND TURBINE CRACK DETECTION WITH DL/ML – USHE Grant Under Dr. Shekaramiz – Orem, UT

Jan 2023

- Developed a high-accuracy CNN model for blade damage detection on drones, achieving **98.5% accuracy**.
- Led **end-to-end data management**, from creation to standardization, and optimized models with hyperparameter tuning.
- Evaluated various CNN architectures (**Xception, Inception, ResNet50, YOLOv7**), presenting findings for actionable insights.

- Researched and implemented various other architectures such as R-CNNs and transformers.

Work Experience

ML RESEARCHER (PAID) – Utah Valley University – Orem, UT

February 2023 - Current

- Played an integral in a team dedicated to data collection, thorough data cleaning, and preparation for advanced analysis and machine learning model training, with a specific focus on thermal wind turbine crack detection.
- Performed hyperparameter turning for higher accuracy and performed normalization/regularization to reduce overfitting.
- Generated weekly reports on weekly progress and challenges then presented to Projects Leaders

WEB DEV INTERNSHIP – Rhone Apparel – Remote

August 2022 - December 2022

- Actively participated in daily and weekly Agile Scrum meetings, fostering clear communication and alignment within the development team.
- Collaborated with cross-functional teams to gather requirements and create responsive front-end components for A/B testing initiatives, leading to a measurable increase in the conversion rate and decrease in cart abandonment.
- Utilized modern web development technologies and best practices to ensure optimal performance, usability, and responsiveness of the front-end components.

SALES TEAM LEAD – Moxie Pest Control – San Diego, CA

May 2019 - August 2022

- Excelled in the role of Sales Team Leader, overseeing a team of 10 door-to-door sales representatives. Managed day-to-day logistics, including area planning, to ensure optimal efficiency.
- Provided daily training and coaching to sales representatives, resulting in a substantial increase in their sales performance. On average, team members tripled their sales between their first and second months, demonstrating the effectiveness of the training program.

Volunteering

FULL TIME MISSIONARY – The Church Of Jesus Christ Of Latter Day Saints - Argentina/Paraguay

Oct 2016 - Oct 2018

Language Spoken

ENGLISH – Native

SPANISH – Fluent

PORTUGUES – Proficient