JERAD WILLIAMS

DATA SCIENTIST

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EDUCATION

Sacramento State University   Aug. 2012 - May 2015
Bachelor of Science Healthcare 2015
Dean's Honor Roll

SKILLS

MACHINE LEARNING: Classification, Regression, ARIMA, SARIMA, Clustering, Decision Tree
STATISTICAL METHODS: Hypothesis Testing, Confidence Intervals, Bootstrap Inference, Bayesian Inference, A/B Testing
SOFTWARE AND PROGRAMMING LANGUAGES: Python (scikit-learn, numpy, scipy, pandas), SQL

PROJECTS

Covid-19 Hospital Resource Forecasting   Apr. 2020 - May 2020
- Used time-series forecasting via autoregressive integrated moving average models ARIMA and SARIMA to calculate how many COVID beds, ICU beds, and invasive ventilators would be needed for the coming year in the US
- Obtained a MSE of 0 and RSME of 0
- Performed data imputation of missing values with the mean of the normal distribution of the feature
- Replaced outliers via quantile values

EMPLOYMENT

ClipperCreek, *Supply Chain Analyst*, Auburn, Ca   Dec. 2017 - Current
- Forecast future supply needs as well as presenting analysis of the supply needs to all department directors
- Purchase and negotiate with vendors regarding materials, supplies, and equipment to fulfill shipments and orders
- Maintain the performance of a supply chain from the initial order, to shipment, to billing, while delivering top tier customer service

Burger Physical Therapy, *Physical Therapy Assistant*, Roseville, Ca   Sept. 2016 - Nov. 2017
- Provided direct patient care to adult and geriatric individuals with orthopedic pathologies such as muscle sprains, shoulder injuries, knee injuries, foot/ankle injuries, cervical and lumbar radiculopathy utilizing modalities, therapeutic exercise, and patient education.
- Administered physical agents to help improve mobility and relieve pain and disability caused by disease or injury as directed by the physical therapist's plan of care.
- Consistently reported patient progress to physical therapist to review plan of care.

Vibra Healthcare, *Purchasing Assistant*, Folsom, Ca   Mar. 2007 - Aug. 2016
- Responsible for ordering materials, supplies, and medical equipment, and the follow through with vendors on shipment and delivery
- Compiled and maintained data of quantity, cost, and types of items received, stocked, and issued, as well as prepared material requisitions
- Compared data on requisitions, invoices, and shipping notices to material received or issued to verify accuracy of order.