

JERAD WILLIAMS

CONTACT

✉ jwilliams8969@comcast.net
☎ (916) 212-7441
🌐 Folsom, CA
🌐 linkedin.com/in/jeradwilliams
🌐 github.com/jeradwilliams

PROFILE

Passionate about collecting, wrangling, analyzing, and interpreting large datasets, developing new forecasting models, and performing data management tasks to drive cost and performance improvements.

EDUCATION

2020
SPRINGBOARD
DATA SCIENCE CERTIFICATION PROGRAM

2015
UNIVERSITY OF SACRAMENTO STATE
BACHELOR OF SCIENCE IN HEALTHCARE

TECHNICAL SKILLS

- Python (Scikit-learn, NumPy, SciPy, Pandas, PySpark Matplotlib, Seaborn)
- SQL (MySQL)
- Microsoft Office
- Machine Learning (Logistic Regression, Classification, Bernoulli Naive Bayes, Decision Tree, and XGBoost)
- Time-Series Forecasting
- Natural Language Processing (NLP)
- Deep Learning (LSTM)
- Statistic and Probability
- Data Visualization

SOFT SKILLS

- Team Player
- Integrity
- Dependability
- Critical Thinking
- Effective Communication
- Proactive Problem Solving

DATA SCIENCE PORTFOLIO

Jun 2020 – Sep 2020

Predicted Hospital Readmission with Discharge Summaries | [Link](#)

- **Built machine learning models** using **Python**, **NLP** and **Deep Learning** to **predict readmission** with discharge summaries to **improve hospital resource utilization and reduce cost**
- **XGBoost model gave best result - 0.73 AUROC Score**, which is 0.02 less than the State-of-the-Art method which has a score of 0.75-0.76 AUROC (State of the Art method - <https://arxiv.org/abs/1801.07860>)

Mar 2020 – May 2020

Covid-19 Hospital Resource Forecasting | [Link](#)

- 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**
- Predicted the requirements of the number of COVID-19 beds, ICU beds, and ventilators with **95% confidence interval**

WORK EXPERIENCE

Dec 2017 – Present

Supply Chain Analyst | ClipperCreek

- **Maintain the performance of a supply chain** from the initial order, to shipment, to billing, while **ensuring top tier customer service** and resolving any issues or concerns with **limited assistance from supervisor or director**.
- **Design and deliver weekly and monthly forecasting** reports in Excel to upper management and stakeholders based on analytical requirements
- Purchase and negotiate with vendors regarding materials, supplies, and equipment to fulfill shipments and orders

Oct 2016 – Nov 2017

Rehabilitation Assistant | Burger Physical Therapy

- Trained and exercised the disabled and injured, strengthening their bodies and emotional well-being for coping with disability
- Maintained communication with patients and families through various media channels
- Prepared exercise and therapeutic plans based on individual patient needs

Mar 2007 – Sep 2016

Purchasing/Supply Chain | Vibra Hospital

- Prepared material requisitions, compared data on requisitions, invoices, and shipping notices for material received or issued to verify accuracy of order with limited assistance from supervisor
- Responsible for ordering materials, supplies, and medical equipment, and follow through with vendors on shipment and delivery
- Compiled and maintained data of quantity, cost, and types of items received, stocked, and issued.