Cedric Vicera

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Skills

Languages Python, R, SQL
Technologies pandas, NumPy, Scikit-learn, TensorFlow, Matplotlib, Seaborn, ggplot2, PySpark
Data Science Hypothesis Testing, Linear/Logistic Regression, Random Forest, Neural Networks
Tools Git, Jupyter, Databricks

Experience

CVS Health Jan 2023 – Present
Data Scientist · Retail Pharmacy Consumer Analytics

- Conduct exploratory data analysis on expanded vaccinated population.
- Maintain and provide measurements on on-going and past vaccine campaigns.

CVS Health Jun 2022 – Aug 2022
Data Science Intern · Retail Pharmacy Consumer Analytics

- Developed a random forest uplift model to optimize timing of delivery of SMS messages for immunizations outreach.
- Conducted EDA to identify notable characteristics of patient immunization history and disposition.
- Performed data cleaning, aggregation, and feature engineering on 52M patient immunization and retail data.

St. Jude Children's Research Hospital May 2021 – Jul 2021
Biostatistics Research Intern

- Wrangled pediatric oncology patient health records to visualize several average temporal trends in patient BMI based on presence versus absence of bacteria species pair.
- Implemented a linear mixed-effects model to identify 3 bacteria species pairs correlated with elevated post-treatment BMI.
- Conducted hypothesis testing and presented results in a research seminar and wrote a manuscript detailing project methods and discussion.

University of Arizona College of Engineering Aug 2018 – May 2020
Research Assistant · Computational Medicine and Informatics Collaboratory

- Wrote scripts to extract critical care telemedicine data to analyze failure rates and temporal differences between noninvasive ventilation strategies of 10K patients.
- Conducted subgroup analysis to identify patient personas and generated sankey diagrams to visualize 9 patient subgroup outcomes.
- Applied logistic regression to show that NIPPV patients have an increase of 16.8% in mortality compared to HFNI patients, who carry a 6.6% increase in mortality.

Projects

COVID-19 Risk Factor Predictor *Python (Flask, pandas), HTML/CSS* cedricvicera/CovidRFP

- Developed a full-stack web application to display an analysis of identified COVID-19 risk factors for a user.
- Implemented front-end and back-end services.
- Conducted data analysis by leveraging CDC COVID-19 Public Data to compute user results.

Education

University of Pennsylvania
Master of Computer and Information Technology

University of Arizona
Bachelor of Arts (with Honors)