Cedric Vicera

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GitHub: cedricvicera

Profile

Data scientist currently working in healthcare analytics.

Skills

Languages Python (pandas, NumPy, scikit-learn, PySpark), R, SQL, LaTeX
Data Science Hypothesis Testing, Linear/Logistic Regression, Random Forest, Neural Networks
Tools Git, Jupyter, Databricks

Experience

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

- Conduct EDA using patient immunization and retail data to improve vaccination rates.
- Authored and delivered presentations on analytics projects for audiences at a mixed technical level.
- Measure immunization campaign performance daily.
- Developed a random forest uplift model to optimize timing of delivery of SMS outreach messages.
- Created, updated, and maintained internal technical documentation.

St. Jude Children's Research Hospital 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.

Computational Medicine and Informatics Collaboratory 2018 – 2020
Research Assistant

- 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.

Education

University of Pennsylvania 2023
Master of Computer and Information Technology

University of Arizona 2020
Bachelor of Arts (with Honors)