CHRISTOPHER TECENO

Machine Learning Engineer

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I am a ML Engineer, Registered Nurse, Air Force Veteran, and World Traveler. My goal is to make use of data and Machine Learning to improve the health and quality of life for all through my unique combination of vast domain knowledge and modern technical prowess.

TECHNICAL SKILLS

Python - SQL - Tableau - Applied Statistics - Pandas - Matplotlib - Seaborn - Plotly - Machine Learning - Natural Language Processing - NLTK - Keras - TensorFlow - SpaCy - Apache Spark - Data Storytelling - Git - Anaconda - Jupyter Notebooks

EDUCATION

Data Science Certificate Jun 2022
Codeup - Data Science Program
Fully-immersive, project-based 22-week career accelerator that provides students with 670+ hours of expert instruction in applied data science and Machine Learning

Nursing, AAS, ADN/RN May 2018
San Antonio College, San Antonio, TX

Munitions Systems Technology, AAS Dec 2010
Community College of the Air Force, Gunter, AL

Computer Science, BS. 75% complete
University of Southern Maine, Portland, ME
Coursework completed includes: Data Structures, Algorithms, Discrete Mathematics, Fundamental Design

EXPERIENCE

Traveling Registered Nurse Jun 2018- Dec 2021
Multiple locations across United States
Provided Life-Saving Emergency Care to the sick and injured in high-stress time sensitive environment. Exposure to all human populations, pediatric, geriatric, trauma, oncology, cardiac, medical. Functioned as primary COVID RN for Emergency department at onset of SARS-CoV-2 outbreak.

USAF Munitions Specialist/USAF Medic Feb 2009-May 2016
Texas, Italy, Kuwait, Qatar
Deployed in multiple capacities, provided medical support, medical training, weapons expertise, large scale planning and logistics in theaters of war and peace.

SECRET Security Clearance 2009-2019
Eligible to renew and eligible for Top Secret

CERTIFICATIONS

Registered Nurse, Texas #948691
American Heart Association: Basic Life Support (BLS)
Advanced Cardiac Life Support (ACLS)
Pediatric Advanced Life Support (PALS)
National Institute of Health Stroke Scale/Score (NIHSS)
Trauma Nursing Core Course (TNCC)
ARMY Combat LifeSaver Course (CLS)
Air Force Basic Medical Tech and Corpsman Program (BMTCP)
Google: Crash Course on Python

DATA SCIENCE PROJECTS

Cultural Evolution Through Lyrics Jun 2022
Natural Language Processing | Sentiment Analysis

Used a combination of web scraping and the Genius.com API, acquired lyrics for 25k+ songs appearing on the Billboard Hot 100 from 1958-Present. Investigated patterns in lyrics across decades using techniques such as Topic Modeling, Sentiment Analysis, and Term Frequency. Compared these patterns with historical and cultural events. Created a classification model to predict the decade of a song given it's lyrics, more than doubling the baseline accuracy.

How COVID Affects Life and Death May 2022
Exploratory Data Analysis | Time Series Analysis

Pulled Underlying Cause of Death (UCD) data from CDC's WONDER database. Identified trends in tops causes of death before and during COVID. Used META's PROPHET model to predict future death rates from COVID and all cause mortality.

Predicting Github Coding Languages May 2022
Natural Language Processing | Multiclass Classification

This project involved predicting the primary coding language used in a GitHub Repository by examining the contents of the corresponding README file. Python's Beautiful Soup library was used to extract the READMEs. The corpus was prepared by removing HTML syntax, stop words, and lemmatizing. Over one thousand models were created and evaluated. The best performing model was a logistic regression model using vectorized word term frequency-inverse document frequency values. This Model outperformed the baseline on data splits (train, validate and test).

Zillow Zestimate Error Analysis Apr 2022
Regression | Clustering

Our goal was to predict the Zillow Zestimate error using clustering and regression. This project involved pulling relevant data from a SQL database; cleaning that data; splitting the data into training, validation, and test sets; scaling data; feature engineering; exploratory data analysis; clustering; modeling; model evaluation; model testing; and effectively communicating findings in written and oral formats.

TelCo Churn Prediction Feb 2022
Classification | Visualization

My goal was to predict customers who will churn in order to empower other members of the TelCo team to reduce churn. Predicting not only who, but when will customers churn provides valuable insight for marketing and other business development teams to maintain high levels of loyalty and revenue for the business. Reducing churn drastically improves profitability and customer satisfaction.