PRASUNA MANNAVA

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Skills

PROGRAMMING LANGUAGES
Python
SQL

PYTHON LIBRARIES
Pandas
Numpy
SkLearn
Beautiful Soup
Keras
Tensorflow
SQLalchemy

VISUALIZATIONS
Tableau
Matplotlib
Seaborn
Plotly
MS Visio

ALGORITHMS
Linear Regression
Polynomial Regression
Logistic Regression
Random Forest
XG Boost
NLP
Neural Networks

CLOUD, DATABASE & DEPLOYMENT TOOLS
Dash
Google App Engine
Streamlit
SQLite

Experience

Metis — Remote
Data Science & Machine Learning Student

Completed an intensive 14-week accredited data science program focusing on python, supervised and unsupervised modeling, natural language processing , engineering and big data techniques. Complete project portfolio can be found on Github. Selected coursework includes:

Effects of COVID on CMS Open Payments

- Built a Dash app which enables users to compare open payments data from 2020 and 2019 by speciality, drug, and nature of payments. App can be found ***here***
- Pipeline focuses on scraping data from the website onto a SQL database, visualizing on Plotly, creating the app on Dash and deployed using Google App Engine

Interpreting ASL to English Alphabets

- Image data about ASL hand gestures was utilized to build a convolutional neural network to predict the English alphabet that the sign translates to
- Logistic regression and CNN with transfer learning were also attempted to compare model performance
- Pixel data was loaded onto a Pandas dataframe, Numpy was used for preprocessing and reshaping arrays to fit into a TensorFlow sequential model

Predicting Rain in Australia

- Utilized 10 year weather data from Australia to built various classification models to predict rain the next day
- Supervised algorithms such as KNN, Logistic Regression and Random Forest were performed and features such as humidity was explained by plotting feature importance
- Matplotlib was used for visualizations and , Sklearn libraries and Imblearn were used for modeling data and addressing class imbalance
- Created a Tableau dashboard for users to filter rain data by year and month which can be found ***here***

UCSF Medical Center — San Francisco, CA
Analyst — Jan. 2020 to Feb. 2021

- Responsible for clinic overview activities such monitoring trends in payor mix, no shows, cancelled appts and patient satisfaction surveys
- Documented process flows utilizing visio and pointed gaps/issues for smoother workflows
- Presented monthly reports on clinic performance to physicians and staff
- Initiated process improvement projects for better patient access and referral turnaround times
- Worked closely with IT to customize dashboards and work ques suitable for the department
- Coordinated tasks to support tele-health appointments and conducted walkthroughs to patients on zoom

San Francisco CA
Practice Coordinator — Nov. 2016 to Jan. 2020

- Worked with physicians and insurance plans to process genetic testing requests to accomplish low out of pocket costs for patients
- Arranged peer to peer reviews for authorization denials with insurance medical directors
- Responsible for quoting out of pocket cost estimates to patients and helped obtain lowest price available
- Coordinate tasks for launching genetic testing pilot programs
- Perform various tasks on EPIC to track and update patient's health record

Deloitte — Hyderabad, India
Associate Analyst — July 2009 to Jan. 2011

- Supported healthcare organization in strategizing revenue collection
- Worked extensively on IDX GE Centricity and Cerner Millennium
- Researched denied claims and resolved/rebilled with the deficient information
- Interacted with the insurance representatives to obtain status and reason for denial of the claims

Education

University of Washington — June 2013 to June 2014
Post- Baccalaureate Certificate, Health Informatics and Health Information Management

Bachelors in Biotechnology, Osmania University, India — June 2006 to July 2009