

TERRY PROKOP

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Skills

SUPERVISED ML

Linear/Logistic Regression
DecisionTree/RandomForest (CART)
Ensemble Methods

UNSUPERVISED ML

PCA/Dimensionality Reduction
K Means
DBScan

NATURAL LANGUAGE PROCESSING

NMF/LSA Topic Modeling
CountVectorizer/TF-IDF
VADER Sentiment Analysis
TextBlob Sentiment Analysis

DATA TOOLS

Numpy
Pandas
SKLearn
Spark/PySpark

DATABASES

SQL/SQLAlchemy
MongoDB

INTERWEB

html
Flask
BeautifulSoup
Selenium

NEURAL NETWORKS/ DEEP LEARNING

Keras Sequential
OpenCV
fastai
TensorFlow

Education

Texas A&M University
BA History

Data Science Projects

Using NLP to perform Sentiment Analysis on Editorials regarding the Trump Impeachment

- Used NLP (NMF/LSA topic modeling, TruncatedSVD, VADER/TextBlob Sentiment Analysis) to analyze 13 editorials

Predicting Pediatric Pneumonia Using Machine Learning

- Analyzed a pediatric chest x-ray dataset using RandomForest, XGBoost, and Keras Sequential CNN. F1 score: 91.4%
- CNN utilized 3 layers of convolution pooling a fully-connected 64 neuron network to classify x-rays as normal or pneumonia

1,000,000 Rides

- Built a DecisionTree classifier model for fatal auto accidents, classified as alcohol-related or sober. Deployed Flask web app using 4 inputs to predict sober or drunk. F1 score: 84.8%

Experience

Metis

Data Scientist

Chicago, IL
Mar. 2020 to June 2020

- Joined Metis to fast-track additional data analysis, programming skills using Python, SQL, and AWS/Google cloud services
- Metis is an ACCET accredited 12week immersive data science bootcamp focused on project-oriented learning
- The core curriculum is centered around statistics, supervised and unsupervised machine learning, exploratory data analysis, databases, and visualization techniques
- Completed five self-designed data science projects from conception to presentation; including data collection, data management, exploratory data analysis, modeling, and visualizations

Teach For America
Kindergarten teacher

Gary, IN
June 2019 to Dec. 2019

AUSL

5th grade Co-Teacher

Chicago, IL
June 2018 to Mar. 2019

Chicago Heights SD170
Interventionist - REACH

Chicago Heights, IL
Sept. 2015 to May 2018

University of Chicago

Assessor / Research Analyst

Chicago Heights, IL
June 2012 to Aug. 2015

- Worked with team of 3 professors, 3 PhD candidates, and a staff of 22 to help coordinate a longitudinal study of pre-school curriculum
- Performed in-person assessments of children ages 4-8, worked with research team to perform initial analysis of assessment results

Archelon

Options Trader

Chicago, IL
Mar. 2007 to Dec. 2008

- Joined proprietary group within firm. Managed equity and option positions for a basket of 37 stocks

CBOE

Options Trader (AOT, self-employed)

Chicago, IL
Sept. 1996 to Dec. 2006

- Joined AOT in 1996; net profitable 19 of 23 quarters
- Self-funded, self-employed market-maker in CSCO/ORCL and DowJones DIA pits. Managed 26 stock positions, using DIA/component stock volatility arbitrage

Volunteering

Flossmoor Baseball and Softball Inc. · Board Member
Bronco commissioner, have coached 20+ baseball/softball teams