TAYLOR MARTIN

DATA SCIENTIST/MACHINE LEARNING ENGINEER

Social & Contact

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[GitHub](#) | [LinkedIn](#)

https://taylor-m.github.io

Proficient in Python programming and statistical analysis. My problem-solving ability stems from my background in medical physics and experience as an undergraduate researcher in biomechanics. I have one and a half years of experience in payment processing/financial technology along with six years of military experience in the Infantry.

SKILLS

Tools: Python, SciKit-Learn, TensorFlow, Seaborn, Jupyter, Plotly, Tableau, SQL, R shiny, Apache Spark, dplyr, MatPlotLib, Pandas, Numpy, HTML, CSS, Streamlit

Statistics: predictive analytics/forecasting, Monte Carlo simulations, Linear/Logistic regression, hypothesis testing,

Data Processing: missing data imputation, transformation (binarization, standardization, scaling, etc.)

Machine Learning: feature engineering, dimensionality reduction, supervised learning (classification & regression), hyper-parameter tuning, neural networks, deep learning

Natural Language Processing: Latent semantic analysis, tokenization, regex string methods, Word2Vec

PROJECTS

Cardiovascular Disease Patient Classifier/Predictor | [Web Application](#)
- Created supervised learning model to both classify and predict cardiovascular disease
- Developed an interactive web application for data visualization and model evaluation with user

input prediction tool
- Tech Used: sklearn, streamlit, plotly, numpy, pandas, matplotlib, xgboost, seaborn

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Hepatocellular Carcinoma Patient Clustering Model | HCC Clustering Model
- Built a clustering model for HCC patients
- Analyzes cluster statistics regarding mortality data for patient outcome insight
- Tech Used: prince (dimensionality reduction), UMAP, k-medoid/DBSCAN/affinity propagation clustering, KNN Imputation

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Hospital Length of Stay Analysis| Hospital LOS Analysis
- Developed analysis of the correlation between patient data & length of stay
- Seek to gain insights into risk factors affecting a patient's length of stay for healthcare management
- Tech Used: scipy, non-parametric testing, confidence intervals, common language effect size, data exploration/visualization

EDUCATION

The University of Mississippi

Bachelors, Physics
- Medical physics
- Scientific programming

Thinkful

Certificate, Data Science   Oct. 2019 – March 2020
- Experimental design, supervised learning, and unsupervised learning capstones
- Advanced topics: big data, natural language processing, time series analysis, neural networks, deep learning, and neural networks

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Eastern University

Master of Science in Data Science
- Emphasis in Machine Learning (Supervised & Unsupervised), Deep Learning, Predictive Modeling, Time Series Analysis, Natural Language Processing

EXPERIENCE

Data Scientist

EquiPro Holdings | Oxford, MS   April - September 2021
- Processed and leveraged business data for making business decisions
- Built predictive machine learning models to increase operational efficiency and maximize profit margins
- 3 companies under EquiPro Holdings LLC:
    - Security Credit Services – debt buying industry
    - Action Auto – buy here, pay here auto sales
    - Life Dental Group – dental practice group

References:
John Hamilton, CFO: 205-936-9457
Harrison Bryant, Senior Controller: 601-415-6833

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Technical Operations Analyst
ePayment America (Fiserv ISO payment processor) | Memphis, TN   August 2018 - September 2019
- Identified transaction anomalies by analyzing transaction data and solving client problems
- expanded business offerings by developing and implementing new payment technology

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Undergraduate Researcher (Biomechanics Data)
Soair, LLC | Oxford, MS   January - December 2016
- Discovered patient patterns by analyzing gait and stride data
- Developed algorithm for fall risk assessment score
- Captured 1D biomechanical data with ultrasonic transduction
- National Center for Physical Acoustics affiliated LLC

Infantryman/Platoon Support Gunner
MS National Guard   March 15- December 2018
- Spent the summer of 2013 before my freshman year at basic training in Fort Benning, GA
- The summer post freshman year I spent in Fort Benning again completing infantry school
- Was an infantryman in a mechanized infantry unit in Senatobia
- Was an M240 Bravo platoon support gunner until honorably discharged 12/19