

Taylor Martin

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Social

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

Data Scientist/Machine Learning Engineer 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. I also have 7 years experience in Python programming and 5 in SQL.

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

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

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

Bachelors, Physics

University of Mississippi

May 2020

- Medical physics
- Scientific programming

Certificate, Data Science

March 2021

Thinkful

- Experimental design, supervised learning, and unsupervised learning capstones
- Advanced topics: big data, natural language processing, time series analysis, neural networks, deep learning

Masters (MSc) , Data Science

Department of Mathematical Sciences

Northcentral University

Jan 2026

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

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

Data Analyst

Arkansas Blue Cross Blue Shield | Actuarial Services Data Management

November 2022 present

- Management and maintenance of all actuarial data sources and provided data pipeline QA
- Use Python along with SQL in both local IBM DB2 and Snowflake data environments for analytics tasks
- Worked in the transition of all actuarial data from local DB2 servers to snowflake databases
- Managed and facilitated the implementation of data analytics software and tools from 3rd party vendors for use with actuarial data

References:

Joshua Lundin - 501-448-5052

Robert Clayton - 501-993-1333