

IOANA CARDEI

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OBJECTIVE

Seeking a data scientist/engineer position where I can contribute my expertise in Data Science, Artificial Intelligence, Machine learning and predictive analytics to drive innovative solutions and contribute to informed decision-making. My unique background as a Physical Therapy provider in the healthcare industry enhances my perspective, bringing added value to the intersection of technology and diverse industry challenges.

Master of Science in Data Science and Analytics, August 2022 - May 2024

Minor in Artificial Intelligence

Graduate Certificate in Big Data Analytics

Concentration in Data Science and Engineering

College of Engineering and Computer Science, Florida Atlantic University, Boca Raton, Florida

GPA 4.0

Coursework: *Introduction to Business Analytics and Big Data, Computational Foundations of Artificial Intelligence, Introduction to Data Science, Artificial Intelligence, Neural Networks, Data Mining & Machine Learning, Information Retrieval, Deep Learning, Programming in Python, Data Structures and Algorithm Analysis using Python, Data Mining and Predictive Analytics, Natural Language Processing*

Doctor of Physical Therapy, August 2017 - May 2020

University of Florida, Gainesville, Florida

Bachelor of Health Science, June 2013 – May 2017

University of Florida, Gainesville, Florida

SKILLS

Programming Languages: Python, R, SQL

Technical Skills: data preprocessing, data transformation, regression, ridge regression, logistic regression, lasso regression, Bayesian networks, Bayesian classifiers, Markov decision process, support vector machines, neural network, clustering models, principal component analysis, dimensionality reduction, deep learning, convolutional neural networks, generative adversarial networks, recurrent neural networks, LLM, LSTM, regularization techniques, transfer learning, reinforcement learning, A*, time series analysis, stochastic gradient descent, autoencoders, transformers, min-max decision models, alpha-beta pruning

Tools/Frameworks: Python, R, SQL, Tensorflow, numpy, pandas, Scikit-Learn, PyTorch, Keras, GitHub, Weka, NLTK, Tableau, Excel, Power Bi, GGplot, Seaborn, Matplotlib, Excel Analytic Solver, ChatGPT integration, openNLP, javascript, HTML

Interpersonal skills: team player, leadership acumen, hardworker, dependability, empathetic, proactive communicator, creative, adaptive, continuous learner, engaging collaborator, friendly personality

RELEVANT EXPERIENCE

- **Genetic Ancestry Classification with Ridge Regression in python:** Developed and implemented predictive models for classifying individual ancestry on principal components. Achieved optimal parameter tuning through five-fold cross-validation, successfully predicted mixed ancestry proportions. Built manually from scratch in Python and tested with Sklearn logistic regression model.
- **Stock Return Prediction: Ridge and Lasso Regression Analysis in R:** Analyzed and predicted S&P 500 returns with ridge and lasso regression with R Studio (R language), exploring 100 tuning

parameters. Visualized parameter estimates for model selection and regularization using the tidyverse and glmnet R packages.

- **Jellyfish Deep Learning Categorization using Convolutional Neural Networks in Python:** designed and optimized a machine learning algorithm using Tensorflow, Keras, Sklearn and Matplotlib to create images and test multiple CNN models for categorization of classes of jellyfish; tested and evaluated model efficiency on test data set.

WORK EXPERIENCE

Outreach Physical Therapy, New York, August 2022 - present

Physical Therapist DPT, Home Health

- Independently manage caseload, ensuring timely and personalized care delivery while accommodating individual patient needs
- Perform thorough evaluations, develop creative treatment plans collaborating closely with families and interdisciplinary healthcare teams for orthopedic, oncological, and neurological conditions, with a specialized focus on geriatric patients.
- Track record of exceptional satisfaction reviews from patients, indicating quality and effectiveness of treatment

SPEAR PT and OT, New York, NY, December 2020 - August 2022

Physical Therapist DPT, Outpatient Clinic

- Conducted comprehensive assessments, provided tailor treatment interventions and devised patient-centric rehabilitation plans
- Optimized patient care delivery by implementing strategic scheduling procedures to manage caseload of 75-100 patients weekly
- Proficient in treating diverse range of conditions including: joint replacements, impingement, rotator cuff, Multiple Sclerosis, PD, endurance training, chronic back pain, post-operative, neurological, stroke, pediatric conditions and oncological conditions

RESEARCH AND LEADERSHIP EXPERIENCE

- **Clinical Instructor, Spear PT and OT, May 2022- August 2022**
- **Lead presenter for seminar on adolescent scoliosis and lymphedema, Spear PT and OT, October 2021 - August 2022**
- **Physiology of Exercise and Training Teaching Assistant, UF Health and Human Performance, FL, July 2016 - August 2016**
- **Neurology Alzheimer's Research Assistant, UF McKnight Brain Institute, Gainesville, FL, November 2013 - December 2014**

OTHER WORK EXPERIENCE

- Customer Relations - *Prime Clerk*
- Pool Associate – *Hilton*
- Sales Associate - *Hallmark*
- Sports Counselor - *Palmetto Stars*

HOBBIES Taekwondo, snowboarding, surfing, running, hiking, traveling, music

LANGUAGES English (fluent), Romanian (native speaker), Spanish (elementary)