PATRICIA CADAR
10603 Lockerbie Dr, Austin, TX 78750
512-927-6764
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https://piacadar.github.io

OBJECTIVE

Highly driven and self-motivated Computational Biology and Computer Science student. Looking for an internship or full-time job starting May 2021.

SKILLS

Languages

- Proficient in: Python, R, Java
- Familiar with: SQL, HTML, JavaScript, Swift

Frameworks

- Pandas, numpy, sklearn, matplotlib, plotly

Mathematical Models

- Linear regression, Log regression, Decision trees, Naive Bayes, KNN, K-means, Random forests, SVM, Neural Networks, PCA

Hard Skills

- GitHub, GitLab, Tableau, Microsoft Office, Data Mining and Data QA, Data Visualization, Statistics and Probability, Experimental Design and Analysis, Survey Creation, Problem Solving, Big Data

Soft Skills

- Communication and Public Speaking, Critical Thinking, Attention to Detail, Organization, Teamwork and Collaboration, Creativity, Leadership, Time-Management, Self-Motivation

Foreign Language

- Romanian (fluent)
- French (beginner)

EXPERIENCE

Research Assistant – DIY Diagnostics Lab Jan 2019 – Jan 2021

University of Texas at Austin

- Assist students with coding in HTML and JavaScript

Undergraduate Researcher – DIY Diagnostics Lab Jan 2018 – Jan 2021

University of Texas at Austin

- Develop a more accurate and efficient scoliosis detection device using a Python program that took data from flex sensors and created a 3D plot of a person's spine

PROJECTS

- Analyzed two datasets to determine the effects of obesity, alcohol use, and sugar consumption on COVID-related deaths
    - Link: https://piacadar.github.io/post/project1/
- Analyzed the Affairs dataset to predict if a married person has children based on gender, age, years married, and if they had an affair or not
    - Link: https://piacadar.github.io/post/project2/
- Predicted the presence of diabetic retinopathy in medical images using decision trees
    - Link: https://piacadar.github.io/post/decisiontrees/

EDUCATION

University of Texas at Austin August 2017 – May 2021

Austin, TX

- BS Computational Biology – Anticipated May 2021
- Elements of Computing Certificate – Anticipated May 2021

RELEVANT COURSES

UT Austin

- Introduction to Programming
- Elements of Software Design
- Software Engineering
- Biostatistics
- Computational Biology (both in R and Python)
- Data Mining
- Probability
- Linear Algebra & Matrices
- Differential and Integral Calculus
- Finance
- Accounting
- Innovation/Entrepreneurship

Udemy

- Machine Learning
- Deep Learning
- Artificial Intelligence