PATRICIA CADAR

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HTTPS://PIACADAR.GITHUB.IO/

Computational Biology and Computer Science student interested in machine learning and technology. Seeking an internship or full-time job.

SKILLS

Development

- R, Python, Tableau, HTML, Java, SQL, JavaScript, Git

Technical

- Big Data, Machine Learning, Statistical Analysis, Data Mining/Processing, Data Visualization
- Modeling: Linear/Log Regression, Decision Trees, SVM, K-means, Naive Bayes, Random Forests, PCA, Neural Networks

LANGUAGES

- Romanian (fluent)
- French (beginner)

EXTRACURRICULARS

- AIESEC Global Teacher Romania Summer 2018
- Not On My Campus (NOMC) Peer Educator for sexual assault awareness and prevention
- Camp Texas Camp Counselor
- Texas Lassos T-Shirt Co-Chair
- University of Texas at Austin Women's Rowing Team
- Habitat for Humanity Volunteer

PROJECTS

- The effects of obesity, alcohol consumption, and sugar consumption on COVID-related deaths (Language: R)
  - CONTENT: Summary Statistics, Data Visualization, Partitioning Around Medoids (PAM)
  - https://piacadar.github.io/post/project1/
- ML models to predict if a married person has children based on gender, age, years married, and occurrence of an affair (Language: R)
  - CONTENT: MANOVA Test, Randomized Tests, Linear/Logistical Regression, Bootstrap Standard Errors, Data Visualization
  - https://piacadar.github.io/post/project2/
- Prediction of the presence of diabetic retinopathy in medical images using decision trees (Language: Python)
  - CONTENT: Data Preprocessing, PCA, Decision Trees, K=Fold Cross Validation
  - https://piacadar.github.io/post/decisiontrees/

EXPERIENCE

UNDERGRADUATE RESEARCH FELLOW
UNIVERSITY OF TEXAS AT AUSTIN | JUN 2020 - AUG 2020

- Granted a research fellowship at UT to continue my research on developing a scoliosis sensor

SENIOR RESEARCH ASSISTANT AND MENTOR
UNIVERSITY OF TEXAS AT AUSTIN | JAN 2019 - JAN 2021

- Assisted students with coding in HTML and JavaScript
- Mentored students throughout the semester with their independent research projects

UNDERGRADUATE RESEARCHER
UNIVERSITY OF TEXAS AT AUSTIN | JUN 2018 - JAN 2021

- Developed 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

EDUCATION

BS COMPUTATIONAL BIOLOGY
UNIVERSITY OF TEXAS | 2017 - 2021

- GPA: 3.5
- COURSES: Software Engineering, Computational Biology, Data Mining, Biostatistics

ELEMENTS OF COMPUTING CERTIFICATE
UNIVERSITY OF TEXAS | 2017 - 2021

UDEMY & UDACITY

- COURSES: Machine Learning, Deep Learning, Artificial Intelligence, Operating Systems

AWARDS

UNIVERSITY OF TEXAS AT AUSTIN

- UNDERGRADUATE RESEARCH FELLOWSHIP SUMMER 2020
- BIG 12 COMMISSIONERS HONOR ROLL FALL 2017
- UNIVERSITY HONORS FALL 2019, SPRING 2020, FALL 2020