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OBJECTIVE

I am a data scientist with a strong foundation in mathematics and computer science, seeking a position to apply machine learning and data analytical skills.

EDUCATION

Bachelor of Science in Mathematics with a minor in Computer Science May 2025
University of Central Florida – Orlando, FL

PROJECTS

Logistic Regression and Feature Engineering Project 13 Mar 2023 – 3 Apr 2024
University of Central Florida

- Developed a logistic regression model to predict wine quality based on key features such as acidity, sugar, pH, and alcohol content
- Applied advanced data science techniques including KMeans Clustering, Principal Component Analysis (PCA), Hierarchical Clustering, and DBSCAN for comprehensive feature engineering
- Utilized scikit-learn and visualization libraries to extract and present actionable insights from a large data matrix of 6,498 records and 13 fields, enhancing model interpretability

Convolutional Neural Network Image Classification Project 7 Apr 2023 – 30 Apr 2023
University of Central Florida

- Conducted a classification task on the CIFAR-10 image dataset using PyTorch, achieving high accuracy and robustness
- Implemented advanced image preprocessing techniques, including normalization and augmentation, to optimize model performance
- Designed and trained a Convolutional Neural Network (CNN) model, rigorously evaluating and comparing models at various training stages
- Validated model performance on unseen data, ensuring generalizability and reliability

Exploratory Data Analysis Machine Learning Project 19 Jan 2023 – 15 Feb 2023
University of Central Florida

- Engineered a machine learning pipeline for exploratory data analysis on a start-up dataset of 924 records and 28 fields, addressing data quality issues such as missing values and outliers
- Conducted thorough analysis of data distributions and correlations, informing model selection and feature engineering
- Implemented decision trees and random forest boosting algorithms for both classification and regression tasks, achieving significant performance improvements

SKILLS

- Programming Languages: Python, PowerShell, Java, C++, C#, SQL, HTML, JavaScript.
- Machine Learning and Data Science: Proficient in supervised and unsupervised learning, model evaluation, and feature engineering.
- Data Analysis: Experienced in data preprocessing, exploratory data analysis (EDA), and statistical analysis.
- Tools and Libraries: Scikit-learn, PyTorch, NumPy, Pandas, Matplotlib, Seaborn, Jupyter Notebooks.
- Analytical Skills: Strong problem-solving, critical thinking, and analytical abilities.
- Communication: Excellent verbal and written communication skills.