Kayden Lea

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SKILLS

Programming Languages: Python, R, Java, HTML, CSS, JavaScript
Tools: Scikit-learn, TensorFlow, pandas, matplotlib, Tableau, AWS, Jupyter Notebooks, React, Git
Databases: MySQL, MongoDB**,** XML, Hadoop

EXPERIENCE

Product Analyst
CoreLogic June 2023-Current

- Developed an NLP-based classification model using Python and data in SQL to automatically categorize and label entities within a year's worth of client email data, improving issue resolution with accuracy around 80%.
- Utilized Matplotlib and pandas to visualize trends for clients using the RealView appraisal scoring system, providing actionable insights to optimize performance.

Student Researcher
USC Marshall School of Business October 2022 - May 2023

- Collaborated with Professor Yolanda Gil on data categorization and labeling, employing the OPMW-PROV model for improved data management.
- Cleaned and preprocessed data for controlled wildfire prevention, creating predictive models to enhance early detection and prevention efforts.

Machine Learning Intern
Glidewell Laboratories, Irvine, CA Summer 2019

- Boosted image classification model accuracy by 10% through data analysis and optimization of RX files of dentists.
- Assisted senior data scientists in developing facial recognition programs for employee identification, contributing to enhanced security measures.
- Presented research findings to the CEO and board of executives, effectively communicating complex technical concepts to non-technical stakeholders.

PERSONAL PROJECTS

Air Quality Prediction github.com/kaydenlea/airquality

- Explored air quality dataset using pandas, applying various data visualization techniques to gain insights into pollutant trends and spatial patterns.
- Developed a robust linear regression model with scikit-learn, revealing a high positive correlation (R-squared = 0.96) between PT08.S5(O3) and C6H6(GT), enabling more accurate air quality predictions and targeted pollution control measures.

Johnny Depp and Amber Heard Sentiment Analysis github.com/kaydenlea/johnnyamber

- Leveraged the Twitter API to gather 200 recent tweets for Johnny Depp and Amber Heard.
- Conducted sentiment analysis using TextBlob, providing valuable insights into public sentiment towards the subjects, which could be relevant for reputation management or media perception analysis.

EDUCATION

University of Southern California, Los Angeles, CA 2020-2024
Viterbi School of Engineering Masters of Science, Applied Data Science
Dornsife College of Letters, Arts and Sciences Bachelor of Arts, Environmental Studies