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

WORK EXPERIENCE

Student Researcher
USC Marshall School of Business   September 2022 - Current
- Worked alongside Professor Gourab Mukherjee and Professor Trambak Banerjee to create software packages in R based on statistical methods they developed.
- Analyzed, cleaned, and reviewed datasets using python and R libraries as test sets for the software packages.

Coding Instructor
Code Ninjas, Irvine, CA   Summer 2022
- Instructing classes of 10-20 students grades 1st-6th on computer science concepts and programming from block coding to python programming
- Taught basic game development concepts through Minecraft and Roblox modding/game creation

Machine Learning Intern
Glidewell Laboratories, Irvine, CA   Summer 2019
- Analyzed data for image classification to improve performance of model by 10% (reading RX files of dentists)
- Supported senior data scientists and machine learning engineers with facial recognition programs for employee identification
- Presented findings and research to the CEO and board of executives at Glidewell Laboratories

PROJECTS

Air Quality Prediction   github.com/kaydenlea/airquality
- Exploration of data using various data visualization techniques with pandas
- Using sk-learn for linear regression prediction finding a positive correlation between PT08.S5(O3) and C6H6(GT) with an R-squared value of .96

Johnny Depp and Amber Heard Sentiment Analysis   github.com/kaydenlea/johnnyamber
- Using the Twitter API to analyze a set of 200 recent tweets at a time using TextBlob to analyze for sentiment analysis by comparing the overall language polarity between the subjects of Johnny Depp and Amber Heard

EDUCATION

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