DAVID LAPAGLIA

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Detail-oriented, information and data scientist, who strives to generate actionable insights from data.

EDUCATION

Bachelor's of Science in Information Science | GPA 3.9 | Dean's List
- Minors in **Mandarin Chinese** and **Business**
- University of Colorado Boulder, Boulder CO

National Taiwan Normal University - Exchange program through CIEE   **Summer 2023**
- Earned 10 credits while immersed in a Chinese speaking environment, Taipei TW

RELATED COURSEWORK

Programming for Information Science 1 & 2, Applied Machine Learning, Data Visualization, Web Data Science, Mathematical Concepts in Data Science, Text Mining, Web Application Design and Development, Data Exploration, Information Ecosystems, Statistics, Foundations of Data Science, Analyzing Music Data, GIS: Mapping (ArcGIS), Business Leadership, Entrepreneurship and Innovation, Marketing

WORK AND RESEARCH EXPERIENCE   Summer 2024 - Present

Junior Data Manager | National Oceanographic Atmospheric Administration (NOAA)/National Center Environmental Information (NCEI) – Cooperative Institute Research Environmental Science (CIRES)
- Simultaneously managed multiple ingestion scripts for passive acoustic data (PAD), archiving 100+ TBs
- Programmed 10+ Python scripts to aid the tasks of the data manager.
- Led over four major UI/UX updates and bug testing for NCEI Passive Acoustic Collection Engine that led to increased productivity of data collection.
- Engineered revolutionary ways to manage hard drives in the PAD archive.

Center for Asian Studies Assistant | UNIVERSITY OF COLORADO BOULDER   February 2022 - Present
- Implemented video editing - multiple educational projects.
- Spearheaded design and integration of surveys and Google Sheets, improved productivity by 10%.
- Developed web scraping scripts that reduced the manual NRC reporting process from 5 hours to near-instant completion, achieving a 1800% increase in efficiency.

Code Sensei | CODE NINJAS   February 2020 - January 2021
- Taught computational reasoning skills with Javascript to children ages 8-12.

PROJECTS

Traffic Light Recognition Convolutional Neural Network (CNN)
- Engineered a CNN using Tensorflow, reaching 99% F1 score.
  - Practicing data cleaning and standardization techniques.
- Created a comparative model (support vector machine) with scikit-learn machine learning in Python.

Visualizing Emission Trends Across Countries
- Utilized the Altair package, created dashboards on carbon emissions by country.
- Analyzed type of emissions by region, identifying the most problematic places and emission type.

Beats and Bytes: Decoding the Data Behind Song Popularity
- Drawing from Python visualization packages, conducted an in-depth analysis on music data.
- Identified key song features that drive overall song popularity, creating interactive information artifacts.

RELEVANT SKILLS

Technical: Python, SQL, R, API Integration, Data Mining, Web Scraping, Software Development, Database Management, Supervised and Unsupervised Model Training, Neural Networks, Data Visualization, Data Wrangling and Sanitization, Statistical Analysis

Software: PowerBI, Tableau, DB Browser for SQLite, RStudio, Anaconda, VS Code, Spyder, Microsoft Office, Google Suite, Figma

Languages: Graduate Level Proficiency in Mandarin Chinese, Conversational French