

Iain Graham

GitHub portfolio link
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SKILLS

PROGRAMMING

PYTHON | ADVANCED

Familiar with: Pandas, NumPy, Seaborn, Scikit learn, TensorFlow, PyTorch, keras, NLTK, Altair, Plotly, Jupyter

SQL | PROFICIENT

R | INTERMEDIATE

JULIA | BEGINNER

HARD SKILLS

MACHINE LEARNING

Experience with: Regression (linear, logistic, regularized), Classification, Clustering, Neural Nets & Deep Learning, Support Vector Machines, Decision Trees, Boosting

NATURAL LANGUAGE PROCESSING

Experience with: Word2Vec, Sentiment Analysis, Topic Modelling, Summarization, Language Modelling, TF-IDF

DATA VISUALIZATION

DATA MANIPULATION & ANALYSIS

DATABASES

COURSEWORK

GRADUATE

Machine Learning
Natural Language Processing
Data Mining
Information Retrieval
Information Visualization
Data Manipulation & Analysis
Networks

EDUCATION

M.S. INFORMATION DATA SCIENCE

UNIVERSITY OF MICHIGAN

Expected May 2021 | Ann Arbor, MI

B.S. ECONOMICS

UNIVERSITY OF SOUTH CAROLINA

May 2019 | Columbia, SC

Graduated Summa Cum Laude

PROJECTS

COVID-19 INFECTION DETECTION | MACHINE LEARNING

- Achieved accuracy of 81% correct classification leveraging machine learning to identify lungs infected with COVID-19 using images of CT scans of lungs
- Successfully implemented 2 networks from scratch, and 2 pre-trained networks for classification
- Leveraged image augmentation to increase number of training samples from 707 to 2,121

VERTICAL SEARCH ENGINE | INFORMATION RETRIEVAL

- Built and deployed vertical search engine on spaceflight from scratch
- Implemented 7 different term-weighting based ranking functions for document retrieval
- Collected over 2,000 relevant documents and deployed finished product using Flask and PythonAnywhere

TWITTER ECHO CHAMBERS NETWORK ANALYSIS | NETWORKS

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- Augmented

SUMMARIZATION | MACHINE LEARNING

- Trained
- Augmented

AIRBNB | MACHINE LEARNING

- Trained
- Augmented

WORD2VEC | MACHINE LEARNING

- Trained
- Augmented

EXPERIENCE

SAGENCE CONSULTING | DATA ANALYST

Oct 2020 - Nov 2020 | Remote

- Collected and cleaned total of over 50 pages of data for 2 of the clients company tear-downs
- Automated parts of data collection using Python and the Beautiful Soup web scraping package
- Updated 100+ pages of existing data with current information

UNIVERSITY OF MICHIGAN | INSTRUCTIONAL AIDE

Nov 2019 - Dec 2019 | Ann Arbor, MI

- Worked as a member of a 14-person teaching team and was responsible for grading over 200 assignments for a section of 25 students
- Bolstered communication, teamwork, and time management skills while meeting strict deadlines and helping other team members