Howard A. Hamburger

Data Scientist

LinkedIn: https://www.linkedin.com/in/howard-hamburger-74890317/ **Phone: (818) 943-7892**
Github: https://www.github.com/hhamburger **Email: howard.hamburger@yahoo.com**

SKILLS

- **Technologies:** Python, Unix, Linux, Anaconda, Jupyter Notebook, Pandas, Numpy, Matplotlib, Sikit-Learn, MapReduce, PostgreSQL, PySpark, Tableau, Microsoft Azure, AWS S3, HDFS, Processing, Protégé, Git, GitHub,
- **Data & Modeling:** Data Wrangling, Data Visualization, Data Analysis, Data Mining, Regression Modeling, Time Series Analysis, Decision Trees, Naives Bayes, Logistic Regression, VM, Random Forest, KNN, SVD, Clustering, NLP
- **Other:** Analytical & Problem Solving, Inquisitiveness/Intellectual Curiosity, Attention to Detail

PROJECTS

2018/10-2018/11 **Supervised Learning**

-Classified potential donors by income using features of an individual's demographics to help a charitable organization reach out to potential donors using Random Forest Classifier.

2018/11-2018/12 **Deep Learning**

-Built, trained, and validated a neural network architecture to classify 102 pictures of flowers database then allowed the algorithm to make predictions among a test group.
-Created a command line application so a user can specify their own parameters for the network.

2018/03 – 2018/05 **Sentiment Analysis of Tweets**

https://github.com/hhamburger/LewisU-Capstone-Project

-Extracted and cleaned a large dataset of Tweets using regular expressions, MapReduce within Spark HDFS, NLP, and SQL queries in Anaconda 3 Python Jupyter Notebook.
-Created database of keywords from tweets and performed Sentiment Analysis
-Visualized results in Matplotlib using pie charts for analysis to see how Leading Economic Indicators relate to specific tweets

EXPERIENCE

2004/04-2015/12 **Analytical Audiologist**

Hear MD/Sharp Hearing/Audiology Consultants of Southern California

- Increased time efficiency by 300% to create 1000s of linear regressions with an audiometer to categorize residual hearing and hearing loss into two classifications.
- Executed 100s of real-ear measurements with 30% efficiency using hearing aid software that matched ear canal acoustics to a target frequency response.
- Data mined specific frequencies for cochlear hearing loss with 10% increased efficiency using Otoacoustic Emission signals.

EDUCATION

2018 **Lewis University, Romeoville, IL**
M.S. – Data Science
Relative Coursework: Encryption & Authentication, Statistical Programming, Distributed Computer Systems, Introduction to Data Mining and Analytics, Machine Learning, Data Visualization, Semantic Web, Large-Scale Data Storage Systems, Cyber Security

2014 **A.T. Still University: Arizona School of Health Sciences**
Au.D. – Doctor of Audiology

2000 **California State University, Northridge**
M.S. – Communication Disorders and Sciences, Audiology

1997 **B.S. –** Cell and Molecular Biology **|** Minor in Chemistry
Graduate studies, Biology 11 credits completed

1990 **California State Polytechnic University, Pomona**
B.S. – Computer Science