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Data Scientist at Holo, Inc., and Master of Science in Statistics at University of Georgia. Experienced in statistical modeling, natural language processing, and computer vision with over 3 years experience in Python and Pyspark, and 6 years experience in R.

Education

M.S. in Statistics UNIVERSITY OF GEORGIA Athens, GA Aug. 2016 - May 2018

B.S. in Statistics Tainan, Taiwan NATIONAL CHENG KUNG UNIVERSITY Sep. 2010 - Jun. 2014

Data Analytics Experience _

Data Scientist Oakland, CA

Jun. 2018 - Present HOLO, INC.

- Surface data in Airtable and maintain pipelines using Azure Data Factory and Azure Functions
- · Programmatically label defects in cast films of 3D printing resin using OpenCV and ML clustering and predict resin consumption using PCA
- Design and deploy Django app for company-wide data collection API hosted on Azure and create ETL jobs that consumed IoT messages and avro files using Azure web jobs and Databricks
- · Build analytics dashboard and present real-time printing information with plotly dash, PowerBI and Domo

Web Traffic Forecasting of Wikipedia pages %

Athens, GA

DEPT. OF STATISTICS AND DEPT. OF COMPUTER SCIENCE, UNIVERSITY OF GEORGIA

Jan. 2018 - May 2018

- Retooled R time series package itsmr into Python version itsmpy
- Modularized ARIMA and Long Short-term Memory (LSTM) models applied to 145k Wikipedia pages in Python and resulted in 38.89 mean symmetric mean absolute percent error

Microsoft Malware Classification on Apache Spark %

Athens, GA

DEPT. OF COMPUTER SCIENCE, UNIVERSITY OF GEORGIA

Feb 2018

- Features mining from .bytes and .asm files and features reduction via inverse document frequency (IDF) value and decision trees
- · Applied random forest classifier on Pyspark by submitting jobs to Google Cloud computing machine and resulted in 98.97% accuracy of malware classification

Scalable Document Classification on Apache Spark

Athens, GA

DEPT. OF COMPUTER SCIENCE, UNIVERSITY OF GEORGIA

Jan. 2018 - Feb. 2018

- · Created large-scale Naive Bayes document classifier based on word counts on Apache Spark and resulted in 94.52% accuracy for the largest testing dataset working on Google Cloud Platform
- · Optimized Naive Bayes classifier by implementing punctuations and stop-words removing and words stemming, and Laplace smoothing to zero-counts words in each label class

Other Work Experience __

Graduate Teaching Assistant

Athens GA

University of Georgia

Aug. 2017 - May 2018

- Provided lectures of implementing R in regression models for social datasets in course SOCI6630
- · Held several workshops addressing application of R at Department of Sociology

Associate Analyst of Supply Chain Management Division

New Taipei, Taiwan

EVERLIGHT ELECTRONICS Co., LTD.

July 2014 - Aug. 2015

- · Assessed and predicted future stock depreciation for monthly skull session and resulted in 15% sales revenues increase and one plant extension in southern Taiwan
- Evaluated potential devaluated products, demonstrated price-reducing trend to sales management division, and prevented 60% possible depreciation

Skills ____

Programming Python, R

STAT Models Generalized Linear Model, Mixed Effect Model, Logistic Regression, ARIMA Model, ANOVA

ML Models Logistic Regression, Support Vector Machine, k-NN, Random Forest Classifier, Constrained NMF, PCA, SVD

Data Science tools NumPy, Pandas, Scikit-learn, Scikit-image, NLTK, OpenCV, Keras, Tensorflow

Data Visualization plotly, dash, ggplot2, Matplotlib, Tableau, Html

Other Tools Django, PySpark, MySQL, Unix, Git, GCP, Azure, LaTeX, R Markdown, Jupyter Notebooks