HAOMING JIN

Phone: 352-284-6720   E-mail: carterjinhaoming@gmail.com
LinkedIn: www.linkedin.com/in/haoming-jin/   GitHub: https://github.com/carterjin

EDUCATION

University of Florida, Gainesville, FL, US   *Aug. 2012 - May. 2020*
Ph.D. in Physics, Minor in Materials Science and Engineering   GPA: 3.9/4.0
Nanjing University, Nanjing, Jiangsu, China   *Aug. 2008 - Jul. 2012*
Bachelor in Physics   GPA: 3.5/4.0
Udacity
Data Scientist Nanodegree   *May. 2020 - Present*
Data Analyst Nanodegree   *Mar. 2020*

SUMMARY OF SKILLS

Programming: Python (3+ years), Matlab (5+ years), SQL (2 years), C++ (2 years)
Visualization: matplotlib, seaborn, tableau
Technical: Statistical Analysis (5+ years), Machine Learning (2 years), Data Wrangling

PROJECTS

Price Evaluation with Machine Learning for Airbnb in San Francisco   *Apr - May. 2020*
- Analyzed 12000+ Airbnb listing data in San Francisco using pandas in Jupyter Notebook (Python).
- Cleaned and aggregated monthly updated files using pandas, incorporated the geological information to maps using the OpenStreetMap API and folium.
- Used matplotlib and seaborn to visualize and present the findings. Evaluated pricing using scikit-learn and Keras with Linear Regression, Random Forest, and Neural Network, achieving 55.4% R^2 score.

Ford GoBike System Data Exploration   *Apr. 2020*
- Investigated 5.6 million Northern California bike rental records data with pandas.
- Made exploratory data analysis on location, rental time, etc, with visualizations using matplotlib and tableau.
- Concluded daily rental results were 76% more on weekdays than weekends, and most of the rentals (70%) occurred in the morning and afternoon rush hours, corresponding to commute traffic.

Twitter WeRateDogs Data Wrangling with AI   *Feb. 2020*
- Acquired 2000+ tweets data on dogs in WeRateDogs twitter archive using the twitter API, and parsed JSON objects to get retweet, favorite counts, etc.
- Processed missing values, assessed data quality, and identified dog breeds using CNNs and transfer learning.
- Summarized that the golden retriever was the most tweeted dog breed among 150 identified dog breeds, consisting of 7.4% of all tweets, 45% more than the second most tweeted dog breed.

Application Development on Github   *2016 - 2020*
- Prime gap calculation with Rabin-Miller Algorithm
- Digit challenge using Shunting-yard algorithm
- Chinese text conversion using pytesseract-OCR
- Brute force zip password cracking with Python

EXPERIENCE

University of Florida   *Aug. 2012 - May. 2020*
Graduate Researcher
- Over five years experience of conducting data analysis and visualization on experiment output. Acquired critical parameters of novel prototypical electrical devices with linear regression and curve-fitting techniques using Matlab and Origin on over 15,000 sets of data. Used statistical models and A/B testing to test hypotheses. Presented findings on weekly group meetings and five global symposiums.

CERTIFICATIONS

Coursera: Machine Learning (with Matlab), Deep Learning (with Python), Advanced R Programming, Algorithm Specialization.

Udemy: The Complete SQL Bootcamp

Certified LabVIEW Associate Developer.

Second prize in 8th Nanjing University ACM programming competition.