Gregory P. Albarian

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Professional Experience

***Support Engineer* | *Qualcomm Inc.* | San Diego, CA | May 2022 to December 2023**

- Used Python to script an internal labelling tool to decrease eye gaze data entry by 50%
- Programmed over 600 lines of Python code to automate the settings of cameras and lights to render 3D objects saving 40% of the time to process training data
- Automated the download of over 20,000 images through an integrated Python API increasing the training data improving the performance of machine learning models
- Increased the communications and improving relationships with third-party data vendors by organizing over 50 meetings which increased accuracy of labels

***Research Assistant* | *Chapman University* | Orange, CA | September 2021 to December 2021**

- Automated an SPSS workflow to analyze patients' stress, depression, and anxiety with over 1300 lines in Python and R that would automatically preprocess with numpy and pandas and apply time series clustering to find 2 trends on the effects of therapy.

***Junior Data Scientist* | *theDevMasters* | Irvine, CA | May 2021 to July 2021**

- During a growth in the Cambodian housing market, I helped design machine learning to predict housing prices for the Z1 applications to help search for affordable housing

Education

Master of Science in Computational and Data Sciences | Chapman University | December 2021
Bachelor of Science in Computer Science | Chapman University | December 2020

Certifications

Coursera Deep Learning Specialization | ***AWS Certified Machine Learning – Specialty***

Projects

***Analyzing Medical Practitioner Stress* | October 2021 to December 2021**

- Used decision trees, SVMs, and neural networks in Python to analyze stress

***DowJonesDividendAnalysis* | October 2020 to December 2020**

- Worked to discover if stocks with larger dividends were traded less often by investors
- Solved with an R script finding there were no correlation between dividends and volumes for the Dow Jones Industrial Average

***MarkovMusic* | January 2019**

- A Python scripted Markov Chain model to learn patterns in song lyrics to generate songs.

Skills:

Programming languages Python, Java, C, C++, R, MATLAB, C#, .NET, SQL, Scala, HTML, CSS
Big Data tools MySQL, MongoDB, SQLite, AWS, Docker, Unix, Linux, Apache Spark, Git, GitHub
Libraries Tensorflow, Keras, Pytorch, NLTK, Gensim, spaCy, TextBlob, OpenCV, Pandas, Numpy, matplotlib, ggplot2, Sklearn, Scikit-Learn, Scipy, JSON
Soft skills teamwork, problem solving, critical thinking, time management, good work ethic