Gregory P. Albarian

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I am continuously learning independently and within my over 2 year career to produce results in creating analytical conclusions, developing machine learning algorithms, and cleaning data.

Professional Experience

***Junior Python Developer* | *SDLC Technologies* | Remote | April 2024 to Present**

- Have tested and modified over 100 programs written in Python, SQL, C++, and others by a Fortune Tech 10 company's LLM
- Reviews the LLM's explanations for the code being outputted

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

- Built an internal labelling tool in Python to increase productivity for eye gaze data entry by 60%
- Wrote Python code to automate the settings of cameras and lights to render 3D objects saving 40% of the time to process training in the data pipeline
- Automated the download of over 20,000 images by integrating a RESTful API into Python increasing the training data to improve the performance of machine learning models
- Facilitated communications and improved relationships with third-party data vendors by organizing over 50 meetings which increased accuracy of labels and downloaded into Azure

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

- Automated a manual workflow to analyze patients' stress, depression, and anxiety.
- Wrote over 1300 lines of Python and R code to Extract, Transform, Load (ETL) with NumPy and Pandas and apply time series clustering to find 2 major trends in the data 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 a machine learning pipeline to predict housing prices for the Z1 application to help search for affordable housing

Education

Master of Science (M.S.) in Computational and Data Sciences emphasis in applied mathematics and analysis | (3.419/4.0) | Chapman University (Orange, CA) | graduated in December 2021

Bachelor of Science (B.S.) in Computer Science | **Mathematics Minor** | (3.282/4.0)
Chapman University (Orange, CA) | graduated in December 2020

Certifications

Coursera Deep Learning Specialization | **Coursera** | does not expire

AWS Certified Machine Learning – Specialty | **Amazon Web Services (AWS)** | expires August 2024

Projects

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

- Used decision trees, SVMs, and neural networks in to find what makes medical workers stressed

***Dow Jones Dividend Analysis* | October 2020 to December 2020**

- Worked to discover a correlation if higher dividends stocks were traded by investors
- Used R script finding there were no correlation between dividends and volumes for the DJIA

***Markov Music* | January 2019**

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

Skills

Programming languages Python, Java, SQL, Scala, R, C, C++, MATLAB, C#, .NET, HTML, CSS
Development tools and Big Data management MongoDB, PostgreSQL, MySQL, SQLite, SparkSQL, Apache Spark, Apache Airflow, Git, GitHub, Docker, Unix, Linux, Jenkins
Libraries TensorFlow, Keras, PyTorch, Scikit-Learn, NLTK, pyspark, Gensim, spaCy, TextBlob, OpenCV, Pandas, NumPy, matplotlib, ggplot2, Sklearn, SciPy, json, csv
Soft skills teamwork, collaboration, problem solving, critical thinking, time management, communication