6510 El Colegio. Santa Barbara 93117

EDUCATION

University of California Santa Barbara – Masters in Data Science (Expected 2024), Ph.D. candidate Lebanese University – Masters in Statistics (Biostatistics).

Lebanese University – BS in Applied Mathematics.

PROFESSIONAL EXPERIENCE

Wireless 20/20 - Fiber & Broadband Consulting

Remote – New York

Data Scientist II - R. Python, C Sharp, SQL, Squirrel, QGIS, ArcGIS Pro

Jan 2022 – Present

- Project Management: Initiated and executed original project on ArcGIS, provided comprehensive supporting documents, proof of concept, and formal proposal.
- **Visualization:** Strategically created a squirrel dashboard for multiple providers across different counties, integrating speed of internet and federal grants data.
- **Automation:** Optimized and automated the fiber mile counting process for grant applications using smart funding approaches, map-based tools, and risk checks, achieving a 500% efficiency improvement and reducing manpower requirements from 5 employees to 1.
- Machine Learning: Applied DBSCAN for geospatial analysis to cluster data points, effectively identifying key regions more likely to adopt new services. This targeted approach directly contributed to securing a \$1M contract with a client for one year.
- **Geospatial Analytics:** Conducted in-depth spatial data analysis using GIS tools and statistical modeling, managed geospatial databases for streamlined data retrieval, and implemented customized routing algorithms to optimize logistics and resource allocation.

University of California Santa Barbara

Santa Barbara, CA

Teaching Assistant -R, Python, SQL

Sept 2022 – present

- **Educational Leadership:** Facilitated hands-on learning in "Transition to Data Science," teaching students Python-based data analysis techniques for real-world applications.
- **Curriculum Development:** Devised and taught course material for "Probability and Statistics," simplifying high-dimensional probability and various statistical testing methods.
- **Instructional Innovation:** Spearheaded an engaging approach to "Survival Analysis," breaking down complex models into easily understandable concepts.

Data Scientist -R, Python, SAS, SQL, Tableau

Oct 2019 - Oct 2021

- Visualization: Compiled and presented infection and vaccination data into Tableau for strategic visualization for executive committee team.
- Stochastic Process: I revamped the COVID-19 vaccination process in Beirut using queueing theory, cutting down wait times and vaccinating more people. (Manuscript in Preparation)

Data Analyst - R, Python, SQL, Tableau

Feb 2018 - Nov 2018

- **Visualization:** Employed Tableau to transform and visualize complex financial and product data, thereby aiding in executive decision-making processes
- **Fraud Detection:** Designed and implemented a sophisticated fraud detection system to successfully identify and halt fraudulent orders, safeguarding company assets.

Skills:

Visualization: Tableau, R (ggplot2, plotly, Shiny, flexdashboard), Python (matplotlib, plotly), Excel, Power BI, Squirrel **Analytics:** Regression, Classification, Spatial, Network, Time Series Modeling, Segmentation, Visualization, Simulation **Software:** R, Python, SQL, Tableau, Excel, Jupyter Notebooks, C Sharp

Machine Learning: TensorFlow, Neural Network, Random Forest, K-NN, Linear Regression, PCA, Stepwise Regression, Ridge Regression, Decision Tree, Logistic Regression, Time Series, Clustering: Hierchical/K-Means, General Linear Models

GIS: ArcGIS Pro, QGIS, ArcPy, Image Interpretation, OpenLayers, Google Earth Pro, PostGIS