Richard Morse

Data Scientist @ BCG X

Contact

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LinkedIn
https://www.linkedin.com/in/richard-morse-a4959a17

Skills

Python, SQL, MS Office, MATLAB

C, C++, R, HTML/CSS

Data Science / Machine Learning

Project Management

Technical Communication, Public Speaking

Spanish Communication

Interests

Golf, Scuba Diving, Running, Chess

Resourceful problem solver passionate about using mathematical analysis to make thoughtful decisions from big data. Excellent communicator dedicated to helping a variety of organizations understand and optimize their choices.

Education

2018-08 - 2022-05

Master of Science: Computer Science, Bachelor of Arts: Computational and Applied Mathematics

Rice University - Houston, TX

- GPA: 3.92/4.00

Experience

2022-09 - Current

Data Scientist

Boston Consulting Group, Houston, TX (Python, SQL, MS Office)

- Collaborating in teams of 6-8, performed digital modeling work for clients across energy, travel & tourism industries
- Pipelined messy client data (**Apache Spark, PostgreSQL)**
- Optimized buildout of new corporate programming via digital modeling (**Scipy, Sklearn**) and statistical analysis (**R**)
- Deployed flexible modeling tool (**Flask, Docker**)

2020-03 - 2022-05

Texas Clean Energy Coalition Researcher

Energy Foundation, Houston, TX (Python, SQL, Tableau)

- Formulated MIP model in Python (**Gurobi**) that would reduce cost of energy production in Texas by over $4.7 billion
- Wrangled big data from NREL weather database (**MySQL**)
- Visualized results (**matplotlib, Tableau**) for general audience
- Lead-authored research publication, leading team of three undergraduates in setting out project goals

2020-08 – 2021-05

TCH Heart Anomaly Detection

Medical Informatics Corp, Houston, TX (Python)

- Created model to predict and detect heart arrhythmias using 4 types of physiological time-series waveforms
- Wrangled noisy data (**h5py, pandas, numpy, scipy**)
- Labeled target events using wavelet scattering network (**tensorflow**) and Gaussian mixture models (**sklearn**)

2019-05 – 2022-05

NSF Computational Neuroscience Researcher

Baylor College Of Medicine, Houston, TX (C, C++, Python, R)

- Simulated and fit coupled neuron electrical activity in C++, Python, and NEURON via multiple shooting (**NAG**, **R**)
- Co-authored research publication