BRUNO C. M. BARRETO

425-301-0338 · bruno@barreto.us · LinkedIn · GitHub · Portfolio

I am a modelling and data analysis specialist seeking a challenging role as a Data Scientist or Software Developer at a dynamic, technology-driven company.

SKILLS

PROGRAMMING LANGUAGES: Python - SQL - Java - MATLAB
CODING: Pandas - Numpy - Scikit-Learn - Scipy - Matplotlib - Seaborn
MACHINE LEARNING: Regression - Classification - Natural Language Processing - Neural Networks
SOFTWARE: Github - Microsoft Azure - Slack - Jupyter Notebooks - Google Colab - Microsoft Office

EDUCATION

M.S. in Data Science in progress, University of Washington, Seattle, WA 09/2023 - 04/2025
Certificate, Data Science, General Assembly 10/2022 - 02/2023
B.S. in Bioengineering w/ Data Science, University of Washington, Seattle, WA 09/2018 - 07/2022
Certificate, Azure Data Science Associate (DP-100) 07/2022 - 09/2022
Certificate, Azure Fundamentals (AZ-900) 06/2022 - 07/2022
Certificate, Azure AI Engineer Associate (AI-102) 04/2023 - 08/2023

EXPERIENCE

DATA SCIENCE FELLOW, GENERAL ASSEMBLY, REMOTE 10/2022 - 02/2023

- Successfully completed 500+ hours of expert-led instruction in data exploration, machine learning, data visualization and hands-on learning of Data Science fundamentals and the industry's most in demand technologies.

CAPSTONE STUDENT, NANOSTRING, REDMOND, WA 01/2022 - 06/2022

- GEOMX SUSTAINABLE REAGENT PROJECT - Reduced operating costs for the GeoMx Digital Spatial Profiler by altering reagent bottle structure and modifying device software to intelligently monitor fluid requirements, resulting in a 20% drop in reagent costs.

DATA SCIENCE PROJECTS

DEEP LEARNING IMAGE CLASSIFIER 04/2022 - 06/2022

- Developed a model in Python to automatically classify images into 10 distinct categories using a trained convolutional neural network with 90% accuracy in classification.

NERVE TISSUE REGENERATION MODEL 05/2021 - 06/2021

- Developed a model of peripheral nerve regeneration for neuroscientists that reduced growth factor conduit testing times by 100x using COMSOL Multiphysics.

TURBO GLYCOLYSIS PID CONTROLLER 04/2022 - 06/2022

- Created a PID controller in Python and MATLAB for ATP production in an unstable turbo glycolysis bioreactor that improved reactor settling times by 80% and made reactions stable.

AMES HOUSING PRICE ESTIMATOR 11/2022 - 12/2022

- Created a machine learning model to automatically assign appropriate house prices for realtors in Ames, Iowa using a linear regression trained on local tax data, resulting in a model capable of accounting for 92% of variance in house prices.

ACCIDENT SEVERITY PREDICTOR NLP 01/2023 - 02/2023

- Developed a model that can predict flight accident severity from a formal report with 90% accuracy and determine that improper installation and maintenance of airframe components was a key cause of high lethality

ATTENTION-BASED SENTIMENT CLASSIFER 05/2024 – 06/2024

- Developed an attention-based model to automatically determine the sentiment of a movie review from contextless review text with 88% accuracy