

BRUNO C. M. BARRETO

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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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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, DATA SCIENTIST	04/2022 - 06/2022
<ul style="list-style-type: none">Developed a model in Python to automatically classify images into 10 distinct categories using a trained convolutional neural network with 90% accuracy in classification.	
<u>NERVE TISSUE REGENERATION MODEL</u> , DATA SCIENTIST	05/2021 - 06/2021
<ul style="list-style-type: none">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, BIOINFORMATICIAN	04/2022 - 06/2022
<ul style="list-style-type: none">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, DATA SCIENTIST	11/2022 - 12/2022
<ul style="list-style-type: none">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.	
<u>ACCIDENT SEVERITY PREDICTOR NLP</u> , DATA SCIENTIST	01/2023 - 02/2023
<ul style="list-style-type: none">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	
<u>ATTENTION-BASED SENTIMENT CLASSIFIER</u> , DATA SCIENTIST	05/2024 - 06/2024
<ul style="list-style-type: none">Developed an attention-based model to automatically determine the sentiment of a movie review from contextless review text with 88% accuracy	