



CHARLES BUSHROW

Data Scientist


DETAILS

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SKILLS

Data Analysis

Machine Learning

Predictive Modeling

Data Visualization

Automation

TOOLS

Python

SQL

HTML/CSS/JavaScript

VBA

R

Java

Git/SVN

Azure/AWS

Tableau

Microsoft Office



PROFILE

Motivated IT professional and consultant with 4 years of broad IT Industry experience, which includes: data visualization, dashboarding, automation and pipelining, machine learning, modeling and simulation, and operations research. Highly regarded as an essential key technical resource, critical thinker, and problem solver.



WORK EXPERIENCE

Lead Data Scientist, Booz Allen Hamilton

Jul 2018 - Present | Arlington, VA

Clean, visualize and leverage data to empower clients and strengthen decision making processes. Develop pipelines and apply machine learning techniques to simplify workflows and expand the power of available data.

- Perform pipelining and automation of manual process, and translate legacy tools built in Excel/VBA into cloud-based web applications built in Python to increase speed and expand concurrent access
- Create user interfaces to validate and verify the data transformations occurring in pipelines and initiate subsequent processes
- Research the context and source of the data to cultivate deeper understanding of likely relationships among features and possible sources of bias, as well as opportunities to expand and improve the data
- Derive features in data, perform feature selection, then train, test, and select machine learning models for predictive and descriptive analyses
- Lead the development of computer vision models spanning image classification, object detection, and semantic segmentation using FastAI and PyTorch
- Develop modelling and simulation tools in AnyLogic/Java to provide clients with a single tool to predict the outcome of projected upcoming aircraft maintenance scenarios
- Deliver findings to clients and present storyboards/presentations that explain the insights and best courses of action gleaned from the results
- Provide subject matter expertise for development and instruction of a series of data literacy/coding courses
- Facilitate team collaboration and monitor tasking through JIRA, using Scrum and Agile methodology
- Write PowerShell/Bash scripts to automate daily tasks and expedite repeated processes
- Maintain GitHub repositories for server tools and code/scripts that are used by various teams

CERTIFICATIONS

Microsoft Azure Fundamentals

IBM Data Science Professional

ICAgile Certified Professional



EDUCATION

M.S. in Analytics, Georgia Institute of Technology

Jan 2020 - Dec 2022 (expected) | Atlanta, GA

B.S. in Industrial & Systems Engineering, Virginia Tech

Aug 2013 - May 2018 | Blacksburg, VA

Minors in business and psychology