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

CERTIFICATIONS

Microsoft Azure Fundamentals IBM Data Science Professional ICAgile Certified Professional

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.

- Responsible for monthly aggregation and analysis of global flight data for the United States Air Force representing \$8 billion in defense resource allocation annually
- Determined and effectively communicated the viability of \$500 million reallocation of defense funding by performing sensitivity analysis and downstream impact analysis, then organizing findings into a cogent argument in support of the decision
- Developed a pipeline in Python to automate ingestion, cleaning, and visualization of a data feed, reducing process time by 98% and creating three days per month of time savings, while also increasing accuracy and reliability
- Ported legacy Excel tools and VBA into Python scripts and dashboards, then deployed to a cloud solution, expanding access and availability for analysis team
- Derived features in historical Air Force data, performed feature selection, then trained, tested, and selected machine learning models for predictive and descriptive analyses
- Provided subject matter expertise for the development and delivery of data science courses taught to 1500+ federal employees as a key piece of the agency's modernization effort
- Led development of computer vision models spanning classification, object detection, and semantic segmentation using Fast.ai and PyTorch
- Increased accuracy from 73% to 98% for aircraft image classification model with 20+ disparate categories by training on varied perspectives, skews, and lightings
- Deployed trained computer vision models and designed web application that allowed for upload of images and interaction with models
- Delivered findings to clients and presented storyboards that explain the insights and best courses of action gleaned from the results
- Facilitated team collaboration and monitored tasking through JIRA, using Scrum and Agile methodology
- Wrote PowerShell/Bash scripts to automate daily tasks and expedite repeated processes
- Maintained GitHub repositories for tools and code/scripts that are used by various teams

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