Russell Brown

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Washington, D.C.

POSITION OBJECTIVE: Data Scientist / Software Engineer

Meticulous data scientist with extensive experience applying predictive models and statistical tests to develop key insights into data and communicating the results to audiences with varying levels of technical expertise. Outstanding critical thinker that quickly troubleshoots problems and finds solutions. Develops a fundamental understanding of the issue at hand and teaches others how to achieve the same.

Qualifications Include:

Statistics & probability • Risk Modeling • Machine learning • Deep learning • Data analysis • Natural language processing Bayesian Methods • Object-oriented programming • Python • R • SAS • SQL • Java • MATLAB • Mathematica • Javascript Shell scripting • Git • Tensorflow • Keras • Scikit-learn • Numpy • Pandas • Statsmodels • Dask • Slurm • Tableau • Excel • Amazon Web Services • Teaching • Public Speaking •Presentations • Oral & written communications • Mandarin Chinese (conversational)

PROFESSIONAL EXPERIENCE

DSFederal – USDA, Beltsville, MD **Dec 2018 - Present**

Data Scientist / Government Contractor

- Set up an Elastic data pipeline and dashboard to track and link KPIs across geographically dispersed databases
- Utilized an HPC cluster to process the National Agricultural Library's entire corpus of research articles, train a word vector model on agriculture vocabulary, and build a recommendation system for research datasets
- Constructed an NLP pipeline to automatically parse and structure PDFs, tag and cluster research proposals, identify potential equipment and data sharing opportunities, and display key insights graphically in an interactive dashboard
- Met with various administrators, leaders, and researchers to discuss their processes and requirements, translate them into modern machine learning solutions
- Researched current machine learning algorithms and engineered them into autonomous data pipelines, from data ingestion to the end-user visualizations and reports
- Explained my methodology to audiences with varying technical backgrounds such as administrators, scientific researchers, and team members and instructed team members on how to implement data manipulation and machine learning code in Python

American Institute for Research, Washington, D.C. **July 2018 – Dec 2018**

Automation Engineer

- Developed scripts to clean, parse, and categorize data from .docx reports into spreadsheets
- Created software tools to automate common tasks, e.g generating reports, emailing requests, and filling web forms
- Queried databases and generated reports to help team members organize their work more efficiently
- Wrote and reviewed standardized math questions for state assessments

General Assembly**,** Springfield, VA **January 2018 – July 2018**

Instructional Associate

- Provided instructional support for General Assembly's part-time data science classes for professionals
- Assessed student projects, deliver lectures, and provided online class support to students
- Analyzed key student metrics for success and adapted the base curriculum to address student needs
- Delivered individually tailored instruction to students who were struggling with the curriculum

EDUCATION

B.S., Mathematics, specializing in Physics, University of Maryland, College Park 2017

PROFESSIONAL DEVELOPMENT AND CERTIFICATIONS

- Deeplearning.ai, Deep Learning Specialization, Online, 2018
- Data Science Immersive, General Assembly, Washington, D.C. 2017
- Society of Actuaries, Exam FM – Financial Mathematics, 2015
- Society of Actuaries, Exam P – Probability, 2014