Patrick Hinson

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Education

JOHNS HOPKINS UNIVERSITY — **Baltimore, MD**
Master of Data Science — *Class of 2024*

UNIVERSITY OF VIRGINIA — **Charlottesville, VA**
Bachelor of Arts in Statistics (Econometrics) and Computer Science — *Class of 2021*

Summary

Data Scientist (M.S.) with 5 years of experience building end-to-end machine learning solutions for internal research and federal consumer-facing tech products. Expert in Python (pandas, numpy, scikit-learn PyTorch) and SQL, leveraging MLOps technologies like spark/databricks. Patented genetic anomaly detection methods and support and improve data modeling and engineering efforts of website and APIs serving millions of customers daily.

Relevant Technologies

Advanced Level: Python, R, SQL, pandas, numpy, Databricks, Tensorflow/Keras, High-Performance-Computing
Intermediate Level: pytorch, LLMs (openAI/Google), bash, mlflow, linux/unix, Tableau, seaborn, scikit-learn, Java

Professional Experience

ACCENTURE FEDERAL SERVICES — **New York City, remote**
Data Scientist — *March 2024 - Present*

- Developed predictive models in Python to estimate processing times for millions of customers on my.uscis.gov
- Streamlined data processing pipelines, optimizing data pipeline and implementing validation checks
- Collaborated with frontend engineers and business stakeholders to improve website and API services
- Spearheaded research into new approaches to modeling our current modeling suite to boost user experience

MITRE CORPORATION — **McLEAN, VA**
Intermediate Data Scientist — *September 2021 – March 2024*

- Led end-to-end development of predictive machine learning model resulting in two approved patents
- Created data pipelines, visualizations, dashboards and statistical analysis for nontechnical stakeholders
- Utilized Python, R, bash, SQL to facilitate all data science related needs for three expected publications

UNIVERSITY OF VIRGINIA SCHOOL OF MEDICINE & JOHNS HOPKINS CSSE — **CHARLOTTESVILLE, VA**
Researcher — *May 2020 – September 2021*

- Provided data science assistance in joint research effort culminating in three peer reviewed publications
- Lead time series analysis of COVID spread in South America with generalized additive models in R
- Consolidated and integrated fine resolution data into existing global data pipeline for research paper

Publications And Conferences

Publications

Enteropathy Markers for Metabolic Syndrome — **Colston JM, Chen YT, Hinson P, et al.**
The American Journal of Tropical Medicine and Hygiene

Effect of Hydrometeorological Factors on COVID-19 Spread — **Colston JM, Hinson P, et al.**
International Society for Infectious Diseases Regions

Unified COVID-19 Dataset — **H. Badr, et al.**
Nature Data

Conferences

ASHG 2022 **poster presentation – machine learning crispr detection** — **Hinson P, Et Al.**