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 improving 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.