

Patrick Hinson

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EDUCATION

JOHNS HOPKINS UNIVERSITY

Master of Data Science

BALTIMORE, MD

Class of 2024

UNIVERSITY OF VIRGINIA

Bachelor of Arts in Statistics (Econometrics) and Computer Science

CHARLOTTESVILLE, VA

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

Data Scientist

NEW YORK CITY, REMOTE

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

Intermediate Data Scientist

MCLEAN, VA

September 2021 – March 2024

- Led end-to-end technical development of predictive machine learning model resulting in two 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

Researcher

CHARLOTTESVILLE, VA

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.