

Jason Turner, Ph.D.

📍 Louisville, KY | 🌐 jturner-uofl.github.io

Professional Summary

Data Scientist with a Ph.D. in Computer Science and 10+ years building AI and machine learning solutions across research, analytics, and production. Expertise in large-scale NLP, LLM automation, and document intelligence platforms processing high-volume clinical and claims data.

Education

University of Louisville – J.B. Speed School of Engineering, Louisville, KY

Ph.D., Computer Science and Engineering; M.S., Computer Science

Eastern Kentucky University, Richmond, KY

M.S., Applied Computing; B.S., Statistics; B.S., Computer Science

Hazard Community College, Hazard, KY - A.S.

Data Science Experience

Humana Inc., Louisville, KY

Senior Data Scientist / Senior Cognitive & Machine Learning Professional

06/2021 - Present

Cognitive & Machine Learning Professional II / Analytics Consultant

08/2017 - 06/2021

- Developed and benchmarked LLM-based document automation systems for healthcare claims workflows.

- Key contributor to an enterprise OCR platform processing thousands of medical documents daily.

- Built a machine-learning risk model to flag high-risk orders, reducing reshipment losses.

- Designed NLP models for entity extraction, classification, and semantic similarity in claims.

- Evaluated and optimized OCR and handwriting recognition models to improve data quality and performance.

- Analyzed user data and applied statistical testing to identify usage patterns and improvement opportunities.

- Applied medical ontologies (SNOMED, ICD) to normalize clinical concepts and improve text analytics.

Pilot Travel Centers LLC, Knoxville, TN

Business Intelligence Data Scientist

05/2015 - 08/2017

- Applied statistical and machine learning methods to pricing, site selection, event impact, and text analysis.

- Performed text mining on customer service logs to identify recurring issues, operational pain points, and trends.

Prior Technical Experience

University of Kentucky – Data Research Analyst, IT Support Specialist, Programmer

Additional: US Dressage Federation, Analysts International (Lexmark), SouthEast Telephone, iEntry, eCampus

Select Academic Experience

University of Louisville, Louisville, KY - Lecturer; Research Member, Data Mining Lab, CSE Dept (Ongoing)

St. Catharine College, Bardstown, KY - Adjunct Faculty, CIS Dept

Bluegrass Community & Technical College, Lexington, KY - Adjunct Faculty, CIS/IS Dept

Skills

Languages & Tools: Python, R, SQL, Bash, PyTorch, TensorFlow, scikit-learn, Hugging Face, spaCy, Azure

Specializations: NLP, LLMs, GenAI, Computer Vision, OCR, Statistical Modeling, Deep Learning

Visualization: Tableau, Matplotlib, ggplot2, Plotly

Research Areas: Information Extraction, Clinical Text Mining, Social Networks

Awards/Honors

- 2022 JB Speed School of Engineering CSE Doctoral Award

- Humana Star Award

- SAS F2009 Business Forecasting Conference (1 of 3 poster prizes)

- Eastern Kentucky University Dean's List

- Eastern Kentucky University NSF Computer Science, Engineering, and Mathematics Scholarship