



# Heath Yates

SENIOR MACHINE LEARNING ENGINEER · ADJUNCT PROFESSOR

Kansas City

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*"Be the change that you want to see in the world."*

## Summary

Senior Machine Learning Engineer with deep experience building and deploying production-grade AI systems across healthcare and enterprise environments. I specialize in designing and operationalizing ML applications that run reliably across both server and edge platforms, with a strong focus on automation, optimization, and end-to-end MLOps. Known for turning complex problems into scalable, real-world AI solutions, I bring a strong engineering foundation and a track record of delivering results.

## Skills

### Python

PYSCAFFOLD, VENV, PYTEST, PYDANTIC, PANDAS, NUMPY, PYTORCH

### MLE Stack

TRITON, KAFKA, CLEARML, POSTGRESQL, S3

### MLOps

GITHUB, PODMAN, DOCKER, DEBIAN PACKAGE, ANSIBLE, TERRAFORM, AWS EC2

### Workbench

VS CODE, VIM, JUPYTERHUB NOTEBOOK, UBUNTU/WSL2, JIRA, CONFLUENCE

## Work Experience

### Artisight

SENIOR MACHINE LEARNING ENGINEER

*Remote*

*June 2022 - Present*

- AI Patient Room - Lead ML engineer for real-time patient-room AI applications for in patient room such as fall prevention and pressure-injury-prevention leading to improved patient outcomes
- Platform - Design, implement, and maintain services that support AI systems on the backend that are used at all customer sites
- MLOps - Deployment, Automation, Standardization of reliable and scalable AI systems on server and edge devices
- Documentation - Created and maintained technical documentation to standardize ML system knowledge across teams.

### Kansas State University

ADJUNCT PROFESSOR

*Olathe, Kansas*

*September 2018 - Present*

- Research - Exploring new applications and approaches to applied data analytics
- Education - Developing materials to make applied data analytics more accessible

### Centene

MACHINE LEARNING ENGINEER

*Remote*

*September 2021 - May 2022*

- Payment Integrity Application - Supported an application that focused on claims integrity that contributed to savings
- SSI - Productionalized an SSI prospecting model that used XGBoost into production that identifies members who are likely to qualify for SSI benefits
- MLOps - Deployed ML applications to Kubernetes using GitLab, Docker, Helm, and Rancher.
- Documentation - Supported documentation for applications, models, and dashboards supported by the team
- Data Science Community - Member of data science continuing education leadership team at Centene which outreach on R and python topics

### Centene- Sunflower Health Plan

DATA SCIENTIST

*Lenexa, Kansas*

*August 2018 - September 2021*

- Clinical Reports and Dashboards - Monitored progress with assigned state paid for performance plans that led to substantial financial savings
- Statistical Reports - Implemented annual reports to track progress and provide data insights on state performance improvement plans
- Data Analytics - Ad hoc analysis for metrics related to quality and LTSS members

**Biosecurity Research Institute**

SOFTWARE ENGINEER

Manhattan, Kansas

September 2014 - July 2018

- Select Inventory Application - Support for application to track facility assets in a user interface and SQL server database
- Compliance Application - Support for application to track compliance with training and certification requirements for personnel at the facility

**Education**

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**Doctorate of Philosophy**

Computer Science

KANSAS STATE UNIVERSITY

**Master of Science**

Statistics

KANSAS STATE UNIVERSITY

**Master of Science**

Mathematics

EMPORIA STATE UNIVERSITY

**Bachelor of Science**

Mathematics

UNIVERSITY OF MISSOURI - KANSAS CITY