



Heath Yates

SENIOR MACHINE LEARNING ENGINEER · ADJUNCT PROFESSOR

Kansas City

✉ hlyates@ksu.edu | 🌐 www.heathyates | ☰ heathyates | linkedin heathyates

"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

Remote

SENIOR MACHINE LEARNING ENGINEER

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

Olathe, Kansas

ADJUNCT PROFESSOR

September 2018 - Present

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

Centene

Remote

MACHINE LEARNING ENGINEER

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

Lenexa, Kansas

DATA SCIENTIST

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

- 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

Manhattan, Kansas

September 2014 - July 2018

Education

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