







Hunter R. Merrill


 Principal Data Scientist | AI Solutions Architect




 Columbus, OH

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 **Bio**

I am an outcome-driven **Technical Program Lead** with a passion for bridging the gap between advanced AI and global development. I have 8+ years experience in data science and 4+ years experience leading cross-functional teams to deliver scalable solutions for agriculture and public health. I have extensive experience with advanced statistical & machine learning methods including Bayesian modeling, deep learning and probabilistic forecasting. I have authored multiple [peer-reviewed publications](#) and [patents](#).

 **Education**

**University of Florida**  
PhD, Agricultural and Biological Engineering  
 **May 2014 - May 2018**  
**MStat, Statistics**  
 **Aug 2012 - May 2014**  
**Mississippi State University**  
BS, Mathematics  
 **Aug 2008 - May 2012**

 **Skills**

Expert: 

AI Strategy

Program Management

Stakeholder Management

Statistics

Machine Learning

Experienced: 

Backend engineering

Remote sensing


AI software development

Mobile app development

Novice: 

Frontend engineering

Web development

 **Tools**

Proficient: 

Python

Bash

Git

SQL

Tensorflow

Spark

Javascript

HTML

CSS

Prior experience: 

AWS

PyTorch


C++

R

Matlab

LaTeX

QGIS


 **Personal Projects**


- Impactfolio: [Donation tracking webapp](#)
- Kaggle competition: [Birthweight prediction intervals](#)
- Training journal: [Bayesian metabolic markers](#)

This CV is available at [hmerrill.github.io](https://hmerrill.github.io)

You can also find me on [LinkedIn](#).


Last updated: 18 Dec 2025

 **Experience**

**Taimaka**  
**Program Improvement Fellow**  
 **Sept & Oct 2025**


Improved pediatric patient outcomes and reduced malnutrition treatment cost in Gombe, Nigeria.

- Built a [facial recognition model](#) with 99% true acceptance and rejection rates and 97% top-three accuracy.
- Built and deployed a mobile app for contactless on-device biometric identification using the facial recognition model.
- Built and automated a backend system to update biometric templates.
- Collaborated with field teams and local stakeholders to pilot biometric identification, ensuring ethical and effective implementation in low-resource settings.
- Discovered a cohort of repeat patients and performed analyses to improve treatment protocols for patients who relapse and return to treatment after initial recovery.

**Climate LLC / Bayer**  
**Principal Data Scientist**  
 **Sept 2024 - Current**


I lead agile teams to deliver scalable AI solutions for precision agriculture. I am responsible for influencing the strategic direction of the business unit and for defining quarterly milestones and two-week deliverables, and for working with commercial teams to align software development with business goals.

- Improved field boundary management experience by developing and deploying a QGIS plugin. I am currently leading the development of a farmer-facing, SAM-based field boundary segmentation tool.
- Automated practice change evidence verification by developing and deploying image- and text-classification neural network models.
- Explored efficient and compliant AI tools by fine-tuning and in-house hosting agent- and RAG-based LLM frameworks for natural language queries of carbon market registry documentation.


**Lead Data Scientist**  
 **Nov 2020 - Sept 2024**

I led agile teams to deliver predictive models for crop diseases. I was responsible for defining scientific strategy, quarterly milestones and two-week deliverables, and for working with commercial teams to align scientific research with business goals.

- Enabled crop protection insights by developing and deploying a deep learning gaussian process model for jointly forecasting multiple diseases.
- Improved data collection efficiency by defining a data valuation strategy & hiring two contractors to execute on it.
- Identified and addressed the risks of collecting more of the same data across programs.

**Senior Data Scientist**  
 **April 2018 - Nov 2020**


- Created in-season wheat disease forecasts by developing probabilistic deep learning models.
- Improved crop yield models by creating deep learning embeddings of high-dimensional environmental data.
- Mentored an intern to develop probabilistic deep learning models to forecast soybean yield over long lead times.


**Geospatial Statistician**  
 **May 2017 - April 2018**

Identified crop nutrient deficiencies in soil by developing predictive statistical models using satellite imagery.


**Freelance**  
**Grant Review Panel Member**  
 **2024 & 2025**

Reviewed grant proposals for the USDA's Data Science for Food and Agriculture Systems awards.

 **Service**

**Taimaka**  
 **May 2025 - Current**

- Reducing nonresponse and mortality rates of malnourished Nigerian children with predictive model development, deployment and automation.
- Quantifying impact by assisting with cost-effectiveness analyses.

**UF ABE Advisory Board**  
 **Dec 2022 - Current**

Responsible for advising on the University of Florida's Agricultural and Biological Engineering department's mission statement and strategy, as well as ensuring curricula result in successful placement of graduates.