

ADDISI NICHOLAS HISRICH

Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana

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EDUCATION

Kwame Nkrumah University of Science and Technology (KNUST)

Sept 2025

Doctor of Veterinary Medicine

Thesis Advisor: Prof. Benjamin Emikpe

Relevant Courses: Epidemiology, Virology, Pathology, Statistics, Algebra, Immunology

RESEARCH EXPERIENCE

Undergraduate Final Year Thesis Project

Jan-Sept 2025

- **Principal Investigator:** Prof. Benjamin Emikpe
Project: Comparative Seroprevalence of *Leptospira spp* in Hunting Dogs: A Study of Kumasi and Tamale
 - I collected and tested blood samples from hunting dogs using ELISA to detect antibodies against *Leptospira spp*
 - I conducted statistical analysis with SPSS to compare seroprevalence rates between Kumasi and Tamale
 - I evaluated potential zoonotic risks and contributed to recommendations for regional disease surveillance

Research Laboratory Assistant (Intern), Kumasi Veterinary Laboratory, Kumasi

Oct-Nov 2023

- **Principal Investigator:** Dr. Patrick Amponsah
Project: Microscopic Identification of Gastrointestinal Parasites in Cattle through Fecal Floatation
 - I collected, labelled and prepared fecal samples from cattle
 - I conducted fecal flotation and microscopic examination to identify parasites
 - I supported veterinarians in interpreting lab results and making clinical decisions

TECHNICAL PROJECTS

Diabetes Prediction Web App

Jan 2025

- Developed a Streamlit web app using XGBoost to predict diabetes risk based on health data, featuring preprocessing, class imbalance handling and model optimization
 - Tools: Python, Scikit-learn, XGBoost, GitHub, Matplotlib, Seaborn, Streamlit
 - GitHub Link: https://github.com/Hisrich/Diabetes_ML_Model

Pet Adoption Predictor

Dec 2024

- Used XGBoost to predict pet adoption likelihood using a Kaggle dataset. Achieved 78% accuracy and visualized insights in Power BI
 - Tools: Python, Scikit-learn, XGBoost, Power BI, GitHub
 - GitHub Link: https://github.com/Hisrich/Pet_Prediction_Model

Pedmonie: Secure Payment Solution

Mar 2024

- Built APIs with Django and implemented CI/CD pipelines for smooth deployment
 - Tools: Python, Django, Django REST Framework, MySQL, GitHub Actions
 - GitHub Link: <https://github.com/InternPulse/pedmonie-django-backend>

WORK EXPERIENCE

Clinical Veterinary (Intern), KNUST Veterinary Teaching Hospital, Kumasi

Oct-Dec 2024

- I assisted in diagnosing and treating small animals (vaccination, deworming, wound care)

- I monitored patient vitals and updated clinical records
- I administered medications and collected blood, fecal and urine samples

Research Laboratory Assistant (Intern), Kumasi Veterinary Laboratory, Kumasi

Oct-Nov 2023

- I collected, labelled and prepared biological samples for diagnostic testing
- I conducted fecal flotation and microscopic examination to identify parasites
- I supported veterinarians in interpreting lab results and making clinical decisions

Backend Development (Intern), InternPulse, Remote

Jan-Mar 2025

- I developed Pedmonie – a secured and seamless payment webapp alongside other interns
- I developed a payment gateway API using Flask, integrating Paystack for transactions
- I created comprehensive API documentation, enhancing usability and integration

CERTIFICATIONS & COURSES

Google Advanced Data Analytics – Coursera	Mar 2025
Intermediate Machine Learning – Kaggle	Nov 2024
Communication for Veterinary Practice – Livisto Group GmbH	Oct 2024
Infectious Disease Transmission Models for Decision-Makers – Coursera	Oct 2024
Introduction to Clinical Research – Global Health Network	Oct 2024
Python Programming – Slightly Techie School	Sep 2024

CONFERENCES AND WORKSHOPS ATTENDED

Harnessing Generative AI for Healthcare Innovations	June 2025
Cracking the Climate Change Code	May 2024

LEADERSHIP/VOLUNTEERING

Anti-Rabies Awareness Campaign	April 2025
COVID-19 Ambassador, Swedru Municipal Hospital	May-Oct 2020

SKILLS

- **Programming:** Python, SQL
- **ML Libraries:** Scikit-learn, XGBoost, TensorFlow, PyTorch, Keras, Pandas, NumPy
- **Laboratory Skills:** ELISA, PCR, Light Microscopy, Microbial culturing, Biochemical assay
- **Data Analysis & Visualization:** SPSS, Excel, Power BI, Matplotlib
- **Tools:** Git, VS Code, Jupyter, Flask, Django, Telebot
- **Communication:** Strong written and oral presentation skills

PROFICIENT LANGUAGES: English, Fante, Twi