

## 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

- 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](https://github.com/Hisrich/Diabetes_ML_Model)

#### Pet Adoption Predictor

- 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](https://github.com/Hisrich/Pet_Prediction_Model)

#### Veterinary Case File Web App

- Built a web application for recording pet and owner details during clinic visits
  - Tools: Python, Flask, HTML, CSS, JavaScript, MySQL, Git
  - GitHub Link: <https://github.com/Hisrich/Vet-Case-Webapp>

### 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, 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