ONYEDIKACHI IKENNA ONWURAH

Pharmacist and Data Scientist Specializing in Precision Medicine, Machine Learning and Deep Learning

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Dynamic pharmacist with 10 years of experience and a passion for leveraging data science to transform healthcare. Currently pursuing a Master's in Data Science specializing in Precision Medicine at the University of Macau. Expert in data analysis, machine learning, and computer vision, proficient in Python, R, SQL, MongoDB and more. Committed to applying interdisciplinary knowledge to enhance patient outcomes and drive innovation in healthcare.

CORE COMPETENCIES

- Data Analysis & Visualization
- Machine Learning & AI
- Data Manipulation
- Web Automation
- POWERPOINT
- PYTHON
- WEB SCRAPING
- Precision Medicine

- Pharmacology & Drug Development
- Healthcare Informatics
- Statistical Modeling
- Project Management
- Team Leadership
- Communication Skills
- Process Optimization

KEY ACHIEVEMENTS

- Recognized for outstanding performance in patient care, leading to a 20% increase in patient satisfaction scores at Glazizzo Health Care Nig.
- Successfully designed a data analysis project that reduced medication errors by 50% through improved workflow processes.
- Awarded the Health Service Award of Gratitude for exceptional contributions to community health education initiatives by Nigerian Christian Corpers' Fellowship.
- Achieved a top 10% ranking in the Kaggle Titanic competition, showcasing data analysis and machine learning skills.
- Awarded best serving intern at Enugu State University Teaching hospital, Dec 2015

RELEVANT COURSEWORK

- Advanced Data Analytics
- Machine Learning in Healthcare

- Statistical Methods for Health Sciences
- Bioinformatics and Data Science

CONFERENCES & WORKSHOPS

- Participant at the *2nd Macau symposium on Data Science* (2024)
- Participant in the *Annual Pharmacology Workshop* (2023) - Engaged in discussions on innovative drug development strategies.

PROFESSIONAL AFFILIATIONS

- Member of the Pharmaceutical Society of Nigeria
- Member of the Pharmacists Council of Nigeria
- Member of Association of Community Pharmacists of Nigeria
- Member of the Data Science Learning community, Kaggle

PUBLIC SPEAKING & TRAINING EXPERIENCE

- Delivered training sessions for pharmacy interns on patient counseling and medication management.
- Conducted workshops on data visualization techniques for healthcare professionals.

PERSONAL PROJECTS

- Developed a web application for visualizing patient data trends using Flutter and Dart.
- Created an open-source tool for analyzing drug interaction data with a focus on user-friendly interfaces.
- Built mobile applications using Flutter and Dart, available on my GitHub.

💼 WORK EXPERIENCE

- **My Private Tutor Online Teaching Platform** 10/2024 – Present
  Mathematics Teacher
    - Assessed student math skills to tailor learning plans.
    - Designed personalized virtual lesson plans.
    - Delivered math instruction using interactive online tools.
    - Assigned practice exercises and provided detailed feedback.
    - Monitored student progress and adapted teaching strategies.
    - Engaged with parents to discuss performance and goals.

- **Preply** 09/2024 – Present
  English Tutor
    - Conducted assessments to evaluate student proficiency levels.
    - Created customized lesson plans for virtual learning.
    - Taught grammar, vocabulary, and writing skills online.
    - Provided constructive feedback on assignments.
    - Fostered engaging virtual learning environments.

- **Glazizzo Health Care Nig** 11/2019 – Present
  Superintendent Pharmacist
  – Led recruitment, training, and mentoring of auxiliary nurses and technicians, boosting departmental performance by 50%.
  – Developed and implemented workflows that reduced administrative errors from 4% to 0.1%.
  – Provided exceptional customer service and medication education, increasing monthly sales by 20%.
  – Automated data management systems, saving 10 hours weekly.
  – Ensured 100% accuracy in medication administration, achieving over 90% customer satisfaction.
  – Educated patients on drug interactions, enhancing pharmaceutical care.

- **Neolife International** 06/2018 – 12/2018
  Health Assistant
  – Trained individuals on basic health practices.
  – Conducted health tests using quantum resonance magnetic analyzers.
  – Supported business development through networking.

- **Nigerian Christian Corper's Fellowship** 06/2016 – 06/2017
  Chief Medical Director
  – Oversaw medication stocking and patient care during outreaches.
  – Conducted health screenings, including HIV and hepatitis tests.
  – Delivered health education presentations.
  – Coordinated with the Ministry of Health for medication supplies.

- **Federal Medical Center, Yola** 06/2016 – 06/2017
  Hospital Pharmacist
  – Reviewed and filled prescriptions with zero errors.
  – Maintained accurate stock records and requisitions.
  – Counseled patients on medication use.
  – Oversaw sterile compounding for chemotherapy drugs.

- **Gozzin Vet Care Nig** Dates Unspecified
  Medical Sales Rep and Manager
  – Promoted veterinary products to clinics and hospitals.
  – Built relationships with veterinarians and staff.
  – Conducted product demonstrations and training.
  – Developed sales strategies to meet targets.

🎓 EDUCATION

- **Master's in Data Science in Precision Medicine** 2024 – Present
  University of Macau GPA: 3.4/4
  – Conducted geospatial analysis for medical facility placement.
  – Analyzed smoking-lung cancer correlations using machine learning.
  – Mastered data manipulation (Pandas, NumPy) and visualization tools.
  – Gained expertise in databases (MySQL, MongoDB) and big data.

- **Bachelor of Pharmacy** Distinction
  University of Nigeria
- **West African Senior School Certificate Examination** Distinction
  Saint Teresa's College, Nsukka
- **First School Leaving Certificate** Distinction
  Onuiyi Primary School, Nsukka

✸ CERTIFICATIONS

- **AI and Applications, Data Management and Analysis** 12/2024 – 02/2025
  from Huawei
- **Introduction to Python** 12/2024 – 02/2025
  from Kaggle
- **Advanced Data Mining with R, Advanced SQL Programming, BUSINESS ANALYST, CLOUD COMPUTING, MACHINE LEARNER, DIGITAL LEADERSHIP, DEEP LEARNING** 12/2024 – 01/2025
  from MindLuster
- **Healthcare in Machine Learning by MIT, MongoDB and App creation with Flutter and Dart** 12/2024 – 01/2025
  from Cursa

🏆 AWARDS & SCHOLARSHIPS

- Master's in Data Science Full Scholarship 08/2024
  University of Macau
- Health Service Award of Gratitude 06/2017
  Nigeria Christian Corper's Fellowship
- Scholarship to Study Public Health (MPH) 06/2024
  Southeast University
- Lifesaver Volunteer Award 08/2017
  Nigeria Christian Corper's Fellowship
- Service of Excellence Award 04/2017
  Nigeria Christian Corper's Fellowship
- Part Scholarship to Study Public Health (MPH) 07/2024
  University of Strathclyde
- Part Scholarship to Study Public Health (MPH) 05/2024
  Dundee University

⊹ PROJECTS

- **Geospatial Analysis of Medical Facilities in California** 08/2024 – 12/2024
  University of Macau, Faculty of Health Sciences
  Developed a model to optimize health facility locations.
- **Smoking and Lung Cancer Correlation Analysis** 08/2024 – 12/2024
  University of Macau, Faculty of Health Sciences
  Used machine learning to study smoking-related health impacts.
- **Antidepressant Effects of *Annona senegalensis*** 12/2012 – 07/2013
  University of Nigeria, Nsukka
  Evaluated plant-based depression treatment potential.

</> TECHNICAL SKILLS

Programming Languages: Python, R, JavaScript, SQL, Java, Dart, Flutter

Data Science Libraries: Pandas, NumPy, scikit-learn, TensorFlow, PyTorch, Keras

Data Visualization: Matplotlib, Seaborn, Plotly, ggplot2, D3.js

Databases: MySQL, MongoDB, PostgreSQL, SQLite

Computer Vision: OpenCV, PIL, Image preprocessing, Feature extraction

Machine Learning Algorithms: CNNs, RNNs, SVMs, Random Forests, XGBoost

Healthcare Informatics Tools: BioPython, NetworkCommons, Biolinks, Drug-target interaction

Cloud Platforms: AWS, Google Cloud, Azure, Docker

Web Development Frameworks: Flask, Django, HTML/CSS, JavaScript, Figma

Mobile Development: Flutter, Dart

Data Analytic: Orange data mining, SPSS, Excel, Pyomics

Other Tools: Git, Linux, LaTeX, Jupyter Notebooks, Tableau, Github, Google Colab, Latex overleaf, MS word, Ms excel, SPSS.

🧑‍💼 PROFESSIONAL SKILLS

- **Analytical Skills:** Data-driven decision making, statistical analysis, predictive modeling.
- **Research Methodologies:** Experimental design, data collection, literature review.
- **Communication:** Technical writing, presentation skills, teaching/training.
- **Project Management:** Agile methodologies, team leadership, stakeholder engagement.
- **Pharmaceutical Expertise:** Drug interactions, therapeutic monitoring, compounding.
- **Quality Assurance:** Process improvement, error reduction, compliance.

👉 VOLUNTEERING & LEADERSHIP

- **World Harvest Gospel Crusade**   04/2012 – Present
  Resource Speaker and Health Assistant, Nsukka, Enugu State
    – Delivered health education presentations.
    – Promoted disease prevention awareness.
    – Assisted in patient assessments and screenings.

- **The Upper Room Experience Global Outreach**   06/2014 – 07/2024
  Chief Medical Director, Enugu State
    – Ensured compliance with pharmacy regulations.
    – Managed medication storage and dispensing.
    – Optimized pharmacy operations.

- **Emeka Okenwa Foundation**   06/2018 – 07/2024
  Project Manager and Chief Medical Director, Enugu State

- Managed medication procurement and quality assurance.
- Developed patient care plans.
- Monitored medication compliance.

- **Our Saviour Anglican Church** 08/2018 – 07/2024
  Chief Medical Director, Pharmacist, Enugu State
  - Oversaw medical outreach programs.
  - Provided drug education to church members.
  - Filled prescriptions accurately.

- **Nsukka Mission Partners** 08/2018 – 08/2022
  Chief Medical Director, Pharmacist, Nsukka, Enugu State
  - Coordinated medical outreach logistics.
  - Ensured quality medical supply availability.
  - Counseled patients on medication use.

📖 PUBLICATIONS

- **Representation Learning** 03/2025
  Faculty of Science and Technology
  Explored automated feature extraction for machine learning.
- **3D Generation** 03/2025
  Faculty of Science and Technology
  Discussed techniques and applications of 3D generation.
- **Knowing Stable Diffusion** 02/2025
  Faculty of Science and Technology
  Analyzed stable diffusion models and approaches.

🅰️ LANGUAGES

- English (Advanced)
- Igbo (Native)
- French (Intermediate)

🪪 REFERENCES

Available upon request