CLIFFORD JESTIN

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CAREER SUMMARY

A dedicated computer science student specializing in data science and health informatics, with a passion for leveraging technology to drive innovation in healthcare. I strive to harness the power of data to solve real-world problems and develop transformative solutions. Motivated to create meaningful change in the health sciences by integrating data-driven insights, AI, and emerging technologies to enhance decision-making and improve patient outcomes.

EDUCATION

Oct 2022 - Present

Bachelor of Technology in Computer Science (Specialization in Health Informatics)
VIT Bhopal, India
- CGPA: 8.69
- Expected completion: June 2026
- Relevant coursework: Health Information Technology, Data Science, Programming Languages, Database Systems, Clinical Decision Support System, AI in Healthcare

Jul 2021 - Jun 2022

International Indian School Dammam, Saudi Arabia (12th grade)
- Grade: 80%

Apr 2019 - May 2020

International Indian School Dammam, Saudi Arabia (10th grade)
- Grade: 91%

PROJECTS

Oct 2023 - Dec 2023

1. Web Application for Lung Transplant
- Designed and developed a web application to streamline the detection and selection of suitable lung donors across the country.
- Implemented donor-recipient matching based on blood groups for accurate assessments.
- Utilized XAMPP for storing, updating, and deleting patient details, enabling efficient data management and seamless database operations

Jun 2024 - Aug 2024

2. Malarial Parasite Detection using YOLO
- Developed a machine learning model using YOLO to detect malarial parasites from blood smear images with high accuracy.
- Collected and labelled a large dataset, applied data augmentation, and optimized the model through hyperparameter tuning and cross-validation.
- Evaluated model performance using metrics such as precision, recall, and F1-score.

3. Hospital Management System
- Developed a Java-based Hospital Management System with MySQL backend to manage patients, doctors, and appointment scheduling.
- Integrated an IoT simulator to monitor patient vitals and store real-time data in the database using JDBC.
- Implemented SMS alert system via Twilio API to notify caregivers when abnormal vital signs are detected.

Nov 2024- Apr 2025

4. AI Powered Wildlife Monitoring and Geo-Location Based Alert System
- Developed an AI-based wildlife detection system using YOLOv8, achieving 91% training and 95% validation accuracy on the NTLNP dataset across 17 species including wild, domestic animals, and humans.
- Integrated real-time geolocation and alerting system using Leaflet.js for map visualization and Twilio API for automated SMS alerts during wildlife detections.
- Built an interactive dashboard with React and Python backend supporting live detections, manual image uploads, and analytics on species occurrences and alert history.

WORK EXPERIENCE

Oct 2024-Nov 2024   **Email Marketing Intern**
                GEMA Education
- Assisted in executing email marketing campaigns targeted at different schools.
- Utilized YAAM for bulk email distribution and campaign management.
- Monitored email performance metrics such as open rates and engagement.

TECHNICAL SKILLS

Programming Languages	Java, Python, SQL, Pandas, NumPy, PL/SQL, Machine Learning
Documentation	Office Suites - Excel, Word, PowerPoint and other
Languages	English, Hindi and Malayalam
Tools & Platform	Canva, Android Studio

SOFT SKILL

Communication, Probelm Solving, Leadership, Time Managment, Critical Thinking

TRAINING/COURSE

1. IoT with Raspberry Pi
Cranes Varsity, Bangalore
- Participated in a two-day training session on IoT using Raspberry Pi, covering key concepts such as sensor integration, data collection.

2. Introduction to Java (Coursera)

3. IBM Data Science

4. IBM Gen AI

EXTRACURRICULAR ACTIVITIES

- Participated in **AI Hackathon**-Visvesvaraya National Institute of Technology (VNIT), collaborated with a team of 3 to create a mental health companion.
- Volunteer Member of Malayalam Club, VIT BHOPAL
- Participated in ADVITYA Sports Fest 2024, University Football Team and secured 2nd Place.
- Organized the AARAMBH Football Tournament 2023 (STUDENT COORDINATOR)