

# Clifford Jestin

Ernakulam, Kerala, India | +91 9037246230 | cliffordjestin@gmail.com | [LinkedIn](#) | [GitHub](#)

## EDUCATION

- VIT Bhopal** Oct 2022 – Jun 2026  
*B.Tech in Computer Science (Health Informatics)* CGPA: 8.65

## TECHNICAL SKILLS

- Languages:** Python, Java, SQL, PL/SQL  
**Libraries/Frameworks:** Pandas, NumPy, Matplotlib, Plotly, Scikit-learn, OpenCV  
**Tools:** Excel/Google Sheets, MySQL, Dash, Git, BurpSuite, Twilio API

## PROJECTS

- Malarial Parasite Detection using YOLO** Jun 2024 – Aug 2024
  - Optimized a YOLOv5 model to detect malarial parasites from **1,000+** blood smear images, achieving **84% precision** (12% accuracy boost) and reducing false positives by 10%
  - Labeled a dataset using Roboflow, applied augmentation (rotation/flipping), and optimized hyperparameters via cross-validation.
  - Evaluated model performance using metrics such as precision, recall, and F1-score.
- AI Job Market Analyzer Dashboard** Jun 2025 – Jul 2025
  - Designed an interactive web dashboard using **Plotly Dash** to visualize AI and data job trends across roles, skills, and locations
  - Analyzed **1000+** job postings, identifying top hiring trends, in-demand skills, and salary benchmarks.
  - Deployed live on [Render](#); implemented dynamic filters and advanced visualizations (heatmaps, scatter plots)
- AI-Powered Wildlife Monitoring System** Nov 2024 – Apr 2025
  - Trained a YOLOv8 model, achieving **91% training** and **95% validation accuracy** on the NTLNP dataset across 17 species.
  - 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 using React and a Python backend, enabling live detections, manual uploads, and analytics.

## EXPERIENCE

- Email Marketing Intern** GEMA Education — Oct 2024 – Nov 2024
  - Executed targeted email campaigns for schools using YAAM platform, achieving **15% higher open rates**
  - Optimized data workflows by analyzing engagement metrics (CTR, conversions) using Excel.
  - Streamlined data management processes by designing automated spreadsheets which enhanced analysis and improved sharing.

## CERTIFICATIONS

- IBM Data Science Professional Certificate** Jan 2025 – May 2025
- IBM Gen AI** Feb 2025 – Apr 2025

## EXTRACURRICULAR ACTIVITIES

- Participated in AI Hackathon at Visvesvaraya National Institute of Technology (VNIT), developing a mental health companion using Python.
- Organized the AARAMBH Football Tournament 2023 (STUDENT COORDINATOR)
- English (Fluent), Malayalam (Native), Hindi (Professional)