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LinkedIn | GitHub | Portfolio

Glanet Jeshma Castelino

EDUCATION

M.Tech in Medical Informatics (2022-2024)
Manipal Institute of Technology, Manipal

B.E. in Biomedical Engineering (2014-2018)
Rajiv Gandhi Institute of Tech., Bangalore

SKILLS

Programming Languages

- SQL (Joins, CTEs, Window Functions)
- Python (Pandas & NumPy)

Tools

- Power BI (DAX, Data Modeling)
- Advanced Excel (Pivot Tables, Power Query, Lookups)
- Jupyter Notebook & Google Colab
- MySQL Workbench
- Git/GitHub
- VS Code

Techniques

- EDA
- Statistical Analysis (Hypothesis Testing, A/B Testing)
- Data Cleaning & Preprocessing
- Regression, Classification & Clustering (K-Means)
- Data Visualization
- ETL Processes
- Web Scraping

Business understanding

- Healthcare Analytics
- Stakeholder Communication
- Documentation
- Process Improvement

PUBLICATION

"Explainable Deep Learning for Dermatology: Psoriasis vs. Eczema"

- Lead Author | IEEE ICRAIS 2024 | Published in IEEE Xplore (Dec 2024) - Achieved 88% accuracy using ResNeXt-50 with Grad-CAM explainability - Link

CERTIFICATIONS

- Introduction to Data Analytics – IBM (Coursera)
- SQL for Data Science - UC Davis(Coursera)
- Introduction to Web Development-Winner, Best Project Challenge (CFG, UK)

Professional Summary

Data Analyst with 1+ year of experience in data analysis and 3+ years in healthcare technology. Proficient in Python, SQL, Power BI, and Excel to deliver actionable insights.

EXPERIENCE

Data Science Bootcamp – Training Program — 2025 - Present

- Currently in OdinSchool Data Science Bootcamp for professionals: Built five comprehensive analytics projects with focus on machine learning, SQL, Excel, and Power BI, leading to key takeaways presented to project stakeholders.

M.Tech Student Intern at Bosch (BGSW) — Jul 2023- Jul 2024

- Developed deep learning models for the Bosch's digital pathology device to classify white blood cells achieving **76%** accuracy with Grad-CAM explainability across 7 WBC types, reducing manual interpretation time by **60%**.
- Reviewed **1,000+** peripheral smear images using metrics (SSIM, PSNR, MSE, mean, StdDev) to evaluate stain normalization, improving image quality assessment by **20%**.
- Conducted unit testing on **50+** clinical algorithm test cases, ensuring **95%** reliability in automated blood cell detection for digital pathology device validation.
- Supported verification of hemoglobin testing device through gathering information and analytical assessment from **100+** patients in maternity hospital setting.

Clinical Specialist at Inito — Feb 2020- Apr 2022

- Analyzed **200+** monthly technical support cases across Indian and U.S. markets using Excel, maintaining **95%** customer satisfaction through metric-driven troubleshooting and root cause evaluation.
- Coordinated medical trials and assessed trial records for 500+ users to evaluate device performance, supporting pre-launch testing of fertility products and reducing device error rate by **12%**.
- Part of the initial launch team for U.S. shift operations, collaborating with cross-functional teams to optimize workflows and improve response time by **40%**.
- Trained and onboarded new team members, creating standardized documentation and training materials that reduced onboarding time by **30%.**

Area Manager at Hemant Surgical Industries Ltd. — Apr 2019 - Dec 2019

- Drove a **25%** increase in product adoption across the assigned territory by implementing comprehensive technical training programs for key accounts including Manipal Hospital.

PROJECTS

- IoMT Healthcare Risk Prediction [Python, Excel]- GitHub
- Global Layoff Trends Analysis Using SQL [SQL]- GitHub
- Laptop Price Insights: ML Meets Power BI [Python, Power BI]- GitHub
- Exploring Coffee Quality Data with Power BI [Power BI, Excel]- GitHub