

Subhas Rayala

 subhashurayalano.1@gmail.com

 +91 7894837009

 [LinkedIn](#)

 [GitHub](#)

Professional Summary

Technology-driven professional with experience in digital transformation and analytics within Industry 4.0 manufacturing environments. Strong interest in applying AI/ML, agentic AI, and predictive analytics to deliver scalable, data-driven solutions that enhance operational performance and decision-making.

Professional Experience

Jaaji Software Technologies Pvt Ltd – Solution Delivery Engineer

Hyderabad | Mar 2025 – Present

Client: Dorf Ketal

- Configured digital manufacturing modules (e-BMR, LIMS, digital logbooks, KPIs, Smart Trends) to replace manual processes using inSis(Industrial Smart Information System) Suite.
- Supported IIoT-based data integration by connecting on-premise DCS systems to Historians and cloud-enabled analytics platforms using OPC UA.
- Supported FAT, UAT, SAT, and on-site IIoT deployments, including go-live and stabilization of plant-wide digital systems.
- Performed industrial data validation and quality checks across MES, Historian, and enterprise systems using SQL, ensuring data reliability for analytics and reporting.
- Tested and supported mobile applications for MES modules, and delivered on-site training to field operators.
- Prepared periodic operational and OPC connectivity reports, and led regular client review meetings to track progress, resolve issues, and ensure stakeholder alignment.
- Leading end-to-end project execution for MES configuration, coordinating with process, quality, operations teams, and plant leadership to translate requirements into software specifications and ensure on-time delivery.

Client: Dodla Dairy

- Led digital implementation and support of LIMS (Laboratory Information Management System) across 9 dairy manufacturing plants.
- Gathered business and laboratory requirements, translating them into functional and technical specifications for MES/LIMS workflows.
- Managed application deployments, patch upgrades, backups, and service monitoring using IIS and Windows Services.
- Led on-site stakeholder interactions to capture analytics requirements and drive data-backed process improvement initiatives within dairy manufacturing operations.
- Designed an analytics workflow by evaluating asset-wise deviations, deviation reports, and identifying process gaps; recommended process improvements using Cp, Cpk, Pp, and Ppk capability indices.
- Provided end-to-end project coordination, status reporting, client communication, and configuration support for change requests to ensure smooth solution delivery.

Toyo Engineering India Pvt Ltd - Process Engineering Intern

Mumbai | Dec 2022 – Feb 2023

- Assisted in the Vacuum Distillation Unit (VDU) expansion project through line sizing, pump hydraulics calculations, and heat exchanger datasheet preparation.
- Reviewed engineering documents including PFDs, P&IDs and Control Philosophy documentation.
- Prepared commissioning documentation and line-listing files supporting project execution.

Indian Oil Corporation Ltd – Data Analysis Intern

Mathura | June 2022 – Sept 2022

- Performed Time-Series Analysis on five years of refinery plant data to identify operational trends and performance deviations.
- Cleaned datasets using Excel and VBA Macros, resolving shutdown periods, anomalies, and outliers.
- Automated heat exchanger fouling analysis model with graphical reporting.
- Developed dashboards and automated visualization reports for senior leadership decision-making.

Institute of Chemical Technology – Machine Learning Intern

Remote | Jan 2020 - April 2020

- Preprocessed image datasets and evaluated ML models such as SLM and Neural Networks, achieving 80% accuracy in image classification.
- Applied statistical analysis techniques and model tuning to enhance predictive performance for business intelligence applications.

Projects

Local PDF Chatbot (RAG + Ollama)

- Developed a local RAG-based chatbot capable of PDF knowledge retrieval using Ollama models.
- Implemented reranker logic for relevance scoring and integrated OCR for image-based extraction.
- Designed an interactive Streamlit UI for user testing and demonstrations.

Credit Card Financial Dashboard (Power BI + SQL)

- Built a SQL-integrated Power BI dashboard for real-time financial KPI monitoring.
- Optimized data models and DAX calculations to improve dashboard accuracy and responsiveness.

Disease Prediction Algorithm

- Executed ETL workflows on clinical datasets and evaluated multiple ML models.
- Achieved 98% accuracy in cardiovascular risk prediction after hyperparameter optimization.

Email Spam Detection System

- Implemented Count Vectorizer-based text feature extraction and supervised ML models.
- Optimized models using GridSearchCV achieving over 90% accuracy.

Skills

inSis Suite, MES Systems, IT-OT Integration, OPC UA, SCADA/DCS, Modbus, SQL (MS SQL Server, Oracle TOAD), IIS Administration, Windows Services, Python, Machine Learning, Power BI, NoSQL, Jupyter, Streamlit, RAG, HTML/CSS/JS, VS Code, Docker.

Education

Institute of Chemical Technology, Mumbai Indian Oil Campus Bhubaneswar - **CGPA 8.42/10**
Integrated Masters (Btech+Mtech) in Chemical Engineering | Minor in Petrochemicals | 2019 - 2024