Subhas Rayala

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WORK EXPERIENCE

Jaaji Software Technologies Pvt Ltd   Present – Mar 2025

Solution Delivery Engineer, Hyderabad

- Digitalized **Laboratory Information Management System (LIMS)** across 9 dairy manufacturing sites with continuous support.
- Gathered **customer requirements** and translated them into technical specifications for development teams.
- Debugged issues, tested **patches**, and validated fixes to ensure stable system performance.
- Supported **patch migrations** and managed **backups** to safeguard data integrity.
- Configured 100+ of electronic Batch Manufacturing Records **(e-BMR)** for a specialty chemicals client.
- Prepared **daily reports**, weekly performance summaries, and **OPC connectivity** reports for client and internal teams.
- Conducted **weekly meetings** with stakeholders to track progress and resolve issues.
- Queried Oracle databases using **TOAD** and **MS SQL Server** to extract required data.
- Managed **project status** reporting, follow-ups, and client communication.
- Acted as a bridge between client teams and developers to ensure smooth delivery and **customer satisfaction.**
- Hands on Experience managing of **IIS (Internet Information Services)** and Windows **Services** for application deployment and management.
- Supported **on-site** activities including **User Acceptance Testing (UAT)**, requirement gathering, and **system integration (IT-OT)** with client teams.

Toyo Engineering India Pvt Ltd   Dec 2022 – Feb 2023

Process Engineering Intern, Mumbai

- Contributed to **VDU Unit** expansion project by performing **line sizing**, **pump hydraulics calculations**, and preparing **heat exchanger data sheets** in compliance with industry standards.
- Gained exposure to refinery equipment (valves, pumps, process units) and reviewed engineering documents including Cause & Effect, Control Philosophy, **PFDs**, and **P&IDs**.
- Prepared commissioning and line-listing documents to support smooth project execution.

Indian Oil Corporation Ltd.   June 2022 – Sept 2022

Data Analysis Intern, Mathura

- Conducted **Time-Series Analysis** on past 5 years plant data to identify performance trends
- Cleaned and processed datasets using Excel and **VBA** Macros, addressing shutdown periods and outliers.
- **Automated** heat exchanger fouling analysis model, generating graphical reports.
- Visualized **Performance Insights** through **Dashboards** and automated graphical reports for senior leadership.

Institute of Chemical Technology, IOC Bhubaneswar   Jan 2020 – April 2020

Machine Learning Intern, Remote

- Preprocessed image datasets and evaluated multiple machine learning models (**SLM, Neural Networks**), achieving **80%** accuracy in image classification; applied statistical analysis to improve model performance.
- Gained proficiency in machine learning algorithms and **statistical analysis** to support data-driven decision-making and business intelligence solutions.

PROJECTS

Local PDF Chatbot

- Developed a chatbot prototype using **Retrieval-Augmented Generation (RAG)** with Ollama local models, enabling PDF-based knowledge retrieval.

- Implemented a **reranker**-based model to rank top chunks and deliver the most relevant answers, integrating **OCR** for image processing and summarization to display nearest images when answers originated from images.
- Built a interactive web UI with **Streamlit** and **PyCharm** for end-user testing and demonstration.

Credit Card Financial Dashboard

- Designed an interactive dashboard integrating **SQL database** with **Power BI** and using **DAX**, enabling real-time tracking of **financial KPIs** to support business performance monitoring and **strategic** decision-making.
- Enhanced Power BI **dashboard** and data accuracy through **data modeling** and DAX **optimization**.

Disease Prediction Algorithm

- Applied **ETL** processes to prepare clinical datasets for **machine learning** models.
- Evaluated multiple machine learning models using **cross-validation** to identify the best-performing algorithm for cardiovascular risk prediction; implemented **pipelines** for hyperparameter tuning and achieved greater than **98%** model accuracy.

Email Spam Detection

- Applied **text vectorization** techniques (**Count Vectorizer**) for feature extraction in spam classification.
- Cross-validated various supervised learning models, **optimized** hyperparameters using **GridSearchCV**, and achieved over **90%** accuracy in spam classification.

GitHub Link for all Projects: https://github.com/SubhasRayala

SKILLS

LIMS, e-BMR, MES, Python, Machine Learning, Jupyter, PyCharm, NoSQL, Excel, Power BI, Microsoft Office, Aspen Hysys, Minitab, TOAD, MS SQL Server, IT-OT Integration, OPC UA, SCADA/DCS, Matricon, Modbus, Customer Engagement, Client Communication, Retrieval Augmented Generation, LLMs.

LANGUAGES

English, Hindi, Telugu - Professional Proficiency
Japanese - Limited Proficiency

EDUCATION

Institute of Chemical Technology, Mumbai Indian Oil Campus Bhubaneswar   -   CGPA 8.42/10
Integrated Masters (Btech+Mtech), Chemical Engineering, Minor in Petrochemicals (2019-24)

HOBBIES

Badminton, Gaming