Assignment-9

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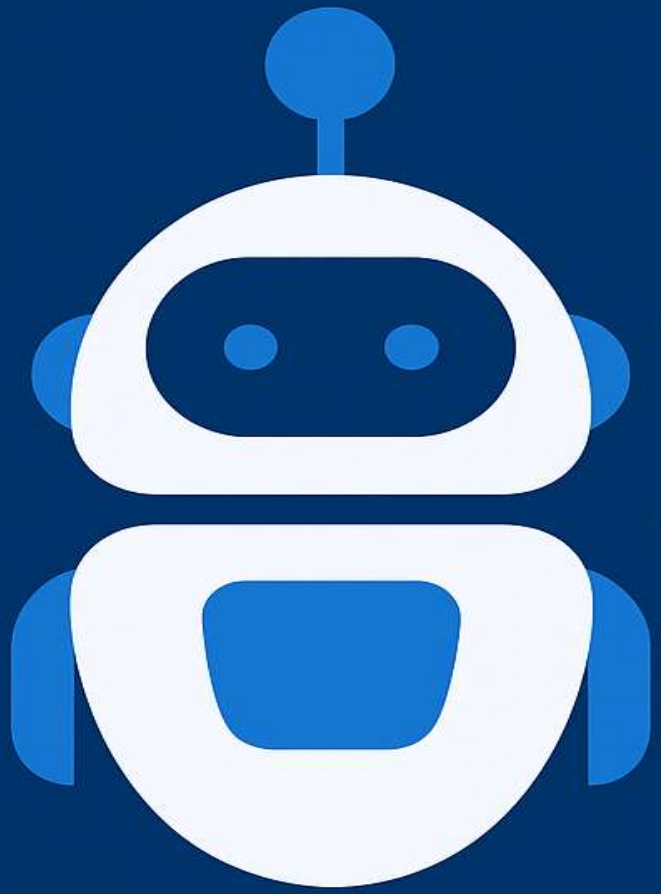


RPA – The Future of Operational Excellence at Tata Steel

Enhancing Efficiency, Accuracy, and Innovation with Robotic Process Automation

Introduction

- *Robotic Process Automation (RPA) utilizes software robots to automate repetitive, rule-based digital tasks.*

- *In a manufacturing powerhouse like Tata Steel, RPA can be transformative across various areas, including finance, HR, inventory, procurement, and logistics.*

- *This presentation outlines:*
  - *A phased roadmap for implementing RPA*
  - *Key operational areas ripe for automation*
  - *Measurable outcomes and ROI potential*

Why RPA for Tata Steel?

- ***High-volume processes*** *(e.g., invoice processing, report generation) currently consume valuable time and human effort.*
- ***Automation frees the skilled workforce*** *to focus on decision-making, innovation, and strategic work.*
- ***Reduces operational risks*** *by eliminating human errors in critical processes like procurement, payroll, and compliance.*
- *Enhances* ***data consistency*** *and improves audit readiness across business units.*
- *Enables Tata Steel to* ***adapt quickly*** *to changing business demands in a competitive global market.*

Step 1 – Establish a Clear Scope

- *Initial Focus Areas:*
  - *Inventory management systems*
  - *Procurement workflows and approval chains*
  - *Invoice intake, validation, and reconciliation*

- *Objectives:*
  - *Speed up end-to-end transaction processing*
  - *Reduce manual interventions that cause delays or errors*
  - *Ensure data accuracy and traceability across systems*

- *Strategy:*
  - *Start small, focusing on **structured and rules-driven tasks** with predictable patterns to demonstrate ROI quickly and minimize implementation risk.*

Step 2 – Choose Specific Tasks to Automate

- *Identified Ideal Use Cases:*
  - ***Daily Maintenance Logs:*** *Automate data logging from equipment status reports.*
  - ***Supplier Order Entry:*** *Convert email orders into ERP entries automatically.*
  - ***Shift Scheduling:*** *Auto-generate shift rosters based on predefined rules.*
  - ***Warehouse Inventory Updates:*** *Sync inventory levels in real-time as goods move.*

- *Why These Tasks?*
  - *High volume, low complexity*
  - *Rule-based decisions*
  - *Frequent and repetitive operations*
  - *Currently performed manually with scope for speed and error reduction*

Step 3 – Find a Technology Partner

- *Recommended Vendors:*
  - ***UiPath** – Known for intuitive design, strong ERP integration*
  - ***Automation Anywhere** – Offers scalable bots and analytics dashboards*

- *What Tata Steel Should Look For:*
  - *Seamless integration with SAP, Oracle, and other in-house tools*
  - *Support for bot scalability across departments and plants*
  - *Robust training & change management support for IT and process teams*
  - *Proven implementation experience in manufacturing or heavy industries*
  - *AI-capabilities for future-proofing the automation strategy*

Step 4 – Implement the First RPA Bot

- *Pilot Project Focus:*
  - *Automating invoice intake, matching, and ERP entry for supplier bills*

- *Bot Capabilities:*
  - *Reads scanned or digital invoices (PDFs, emails)*
  - *Extracts relevant fields (PO number, vendor name, invoice total)*
  - *Cross-validates against procurement data*
  - *Flags discrepancies and logs successful entries in SAP*

- *Success Metrics:*
  - *Time to process each invoice (baseline vs automated)*
  - *Error rate and correction count*
  - *Number of invoices processed per day (throughput)*
  - *Employee hours saved*

Step 5 – Measure the Success

- *Quantitative Outcomes from Pilot:*
  - ***70% faster processing time*** *vs manual efforts*
  - ***90% reduction in data entry errors***
  - ***50% decrease in FTE (Full-Time Equivalent) costs*** *in accounts payable*
  - *Significant reduction in invoice backlogs*

- *Ongoing Evaluation Tools:*
  - *Interactive dashboards showing real-time performance*
  - *Alerts for anomalies or task failures*
  - *Weekly reports comparing pre- and post-automation performance*

Step 6 – Expand Automation Scope

- *Phase 2 Rollout:*
  - ***HR Department:*** *Automate leave approvals, payroll calculation, employee onboarding tasks.*
  - ***Production Reporting:*** *Automate creation of compliance and quality reports.*
  - ***Supplier Communication:*** *Track delivery schedules, send automated follow-ups or alerts, and acknowledge order receipts.*

- *Long-term Goal:*
  - *Build a centralized automation layer connecting HR, production, procurement, and logistics to enable* ***enterprise-wide digital transformation****.*

RPA Benefits

Efficiency

Accuracy

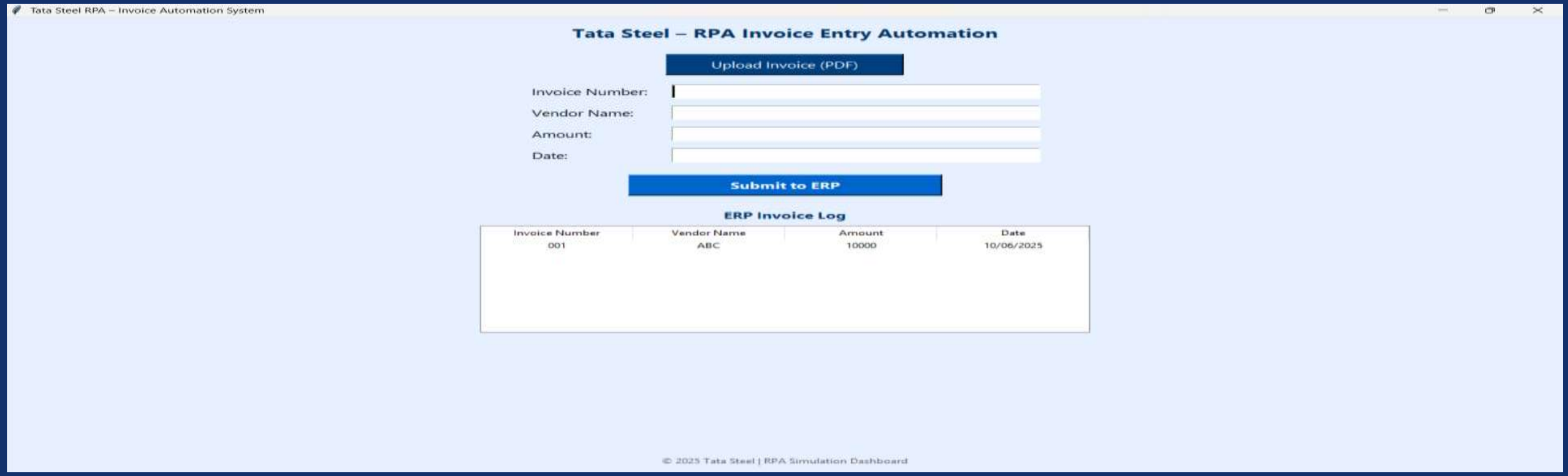
Cost Savings

Innovation

Top 5 Benefits of RPA for Tata Steel

- *Cost Savings:*
  - *Reduction in labor costs through process automation*
  - *Increased process throughput without additional headcount*
- *Error Elimination:*
  - *Improved data integrity across systems*
  - *Accurate audit trails and compliance documentation*
- *Operational Agility:*
  - *Faster processing cycles across departments*
  - *Better response to fluctuations in supply, demand, and compliance changes*
- *Scalability & Flexibility:*
  - *Easily scale bots for new use cases or process expansions*
  - *Adjust workflows with minimal reconfiguration*
- *Empowered Workforce:*
  - *Employees can focus on creative, strategic, and customer-facing tasks*
  - *Improved employee satisfaction through reduction in repetitive workload*

Industry-Ready Presentation



- *Drive Link for the Project:*
  - *https://drive.google.com/drive/folders/1Kr9mdG7HiomC99hgBt4ajtBnPvbc0LsY?usp=sharing*

Let's automate to innovate – and secure Tata Steel's place as a global manufacturing leader.

Conclusion

- *RPA offers more than just task automation—it enables a **new model of intelligent operations**.*

- *By following a **structured, focused implementation path**, Tata Steel can:*
  - *Cut costs significantly*
  - *Achieve near-zero processing errors*
  - *Enable a smarter, faster, and more efficient organization*

Let people lead innovation – and let bots handle the rest.