How Intelligent Document Processing (IDP) Works in Life Sciences

IDP powered by AI Agents is leveling-up the way life sciences organizations handle documents. From clinical trials to regulatory submissions, it reduces manual work, improves accuracy, and speeds up innovation.

1 Data Ingestion
Where Data Comes From:

- Clinical Trial Reports
- Patient Records
- Lab Results
- Regulatory Submissions
- Emails, PDFs, Handwritten Notes

Goal: **Capture Structured And Unstructured Data From All Document Types.**

2 Document Classification
How Documents Are Categorized:

Documents Are Classified Based On The Type And The Context. IDP Uses Machine Learning Algorithms And Pre-Trained Models To Accurately Classify Documents Into Categories Such As:

Clinical:
Patient Reports, Trial Protocols

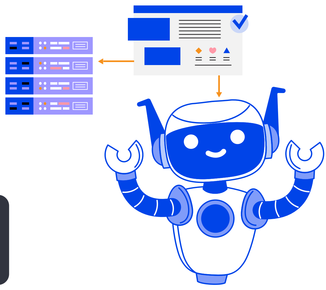
Regulatory:
Submissions, Audit Reports

Operational:
SOPs, Manufacturing Logs, Purchase Orders

Tech used: **Machine Learning And Pre-Trained Models**

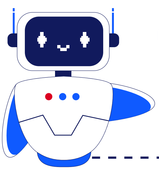
Key Data Extraction
What's Extracted Using OCR + NLP: 3

- Patient IDs & Demographics
- Trial Start/End Dates
- Dosage Details
- Reviewer Comments
- Batch & Manufacturing Data



Bonus:

Understands Context And Relationships (E.G., Dosage Linked To Patient Groups)



4 Data Validation
How It's Verified:

Automatically Checked Against Business Rules Cross-Referenced With Compliance Standards (FDA, EMA, HIPAA)

5 System Integration
Where Validated Data Goes:

ERP Systems:
Procurement & supply chain

CRM Platforms:
Stakeholder and trial data

Regulatory Platforms:
Submissions to authorities

Outcome: **Seamless Workflows, Faster Audits, Quicker Time-To-Market**

Why It Matters

- Reduces manual errors
- Speeds up clinical & regulatory timelines
- Supports compliance at every step
- Brings life-saving therapies to patients faster

Ready To Simplify Document Processing In Your Life Sciences Operations?

Let's talk about how AI agents can support your compliance and efficiency goals.

Get started today!