CONNECT

AI automation across the MedTech product lifecycle

Background

lexoro GmbH sees itself as a technology company with a focus on intelligent automation. The focus is on product development and approval processes in the following industries: MedTech, pharmaceuticals and chemicals. lexoro combines software robotics (RPA) with machine learning and NLP (natural language processing). Here, the company is one of the innovators in Germany. With its own core technology AUTO-X, the company has successfully automated 7 key areas of the MedTech product lifecycle with prototypes and client projects. The results are incredible: with an accuracy of 99%, savings in resource expenditure of 75% could be achieved. A great look into the future of human & machine leverage. The top market expert (researcher, doctor, technical expert, technician) is relieved of routine tasks and can devote himself fully to the respective medical questions and interpretations.

Basic technology

The basic technology consists of the components: RPA (software robotics), NLP (text recognition and understanding) and the crawler (automated search in various data sources). At the heart of the solution is a proprietary AI engine capable of analyzing medical terms and text passages (words, conceptual contexts, semantics, taxonomies, sentiments) and extracting information and understanding from them.

The NLP algorithm can be adapted to specific questions and trained deeply. In this way, database searches and literature searches can be accelerated many times over. Results can be bundled into result categories and thus made available to the subject matter expert for final evaluation more quickly.

Insight into the product life cycle areas

The prototypes have addressed diverse areas of the product life cycle.

◊ Clinical evaluation & reporting
  » Collect, select and evaluate clinical data
  » Support of clinical investigations and studies
  » Automation of literature research and documentation
◊ Database searches
  » Automated search in databases and other sources
  » Integration of all searches under one dashboard

- ◊ » Automatic categorization and evaluation of the information found
  - » Workflow for the further processing steps
- ◊ Literature research
  - » Search and evaluation according to own project algorithm
  - » Sorting by relevance and embedding in a workflow for optimal processing / evaluation
  - » Context- and taxonomy-specific preparation and interpretation of content
- ◊ Product registration
  - » Automatic filling of forms, tables and texts with associated data from internal company systems
  - » Support of different logon processes with matching data
- ◊ Complaint Management
  - » Recognition and classification of complaints, incidents and standard requests
  - » Automatic prioritization and forwarding
  - » End-to-end workflow management
- ◊ PMS & PMCF
  - » Monitoring and triage of side effects
  - » Evaluation of interdependencies
  - » Reporting and workflow management
- ◊ PSUR & PMS Report
  - » Text and data transfer to predefined forms
  - » Table and template fills using NLG
  - » PSUR & PMS report filling based on safety activities, changes, or special events

Advantages

The customized AI and automation solutions are individualized for very specific processes of product approval and development. Functional and industry-specific. And thus very quickly deployable. In addition to technological excellence, lexoro also has industry and subject matter experts. A close and target-oriented individualization to customer-specific requirements is thus also ensured. Up to 75% reduction in resources speaks for itself in terms of TCO and ROI.

We would be happy to organize an individual appointment with an expert from the MedTech area of the lexoro Group. Just let us know what exactly interests you. We are also happy to discuss web demos and concrete project successes with measurable KPIs. With arcoro CONNECT, we take care of networking and establishing contacts.

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