

AlertAE: Next-gen pharmacovigilance solution

Intelligent identification and classification of adverse events,
product quality complaints and clinical queries



Pharmacovigilance is a critical discipline that plays a key role in detecting, assessing, understanding and preventing adverse effects and other treatment-related issues, ensuring not only the individual patient safety but also public health. The exponential increase in digital data from various sources presents significant challenges in effectively managing and harnessing this information into their actionable purposes.

The challenge

The digital era has led to exponential growth in health-related data from numerous sources, including social media and electronic health records, resulting in a surge in adverse event reports in the field of pharmacovigilance. Additionally, globalization and the interconnectedness of healthcare have amplified this influx, making the reports more complicated.



Data overload

The exponential rise in adverse event reports has overwhelmed traditional pharmacovigilance systems, making it arduous to efficiently process, categorize and analyze the extensive volume of data in a timely manner



Language barriers

Due to globalization, adverse event reports are now being generated in multiple languages. However, this multilingual nature poses linguistic challenges for pharmacovigilance departments. It requires specialized expertise to accurately interpret, translate and classify adverse events, as the nuances in different languages can impact the comprehensive understanding and assessment of the reported events

Traditional methods of pharmacovigilance struggle to keep pace with the volume and diversity of data available, leading to delayed and inaccurate reporting of adverse events, hindering effective risk assessment and timely intervention.



The solution

AlertAE tackles these challenges by providing an advanced and intelligent solution. Leveraging cutting-edge technologies, it is designed to identify, extract, classify and auto-populate crucial fields for the initial case intake in pharmacovigilance. This comprehensive solution can handle a wide range of digital sources, ensuring efficient and accurate capture of essential information.



Key features

Intelligent identification

Utilizes LLM/AI to identify adverse event reports from diverse digital media

Efficient extraction

Extracts crucial information from unstructured data, enhancing data accuracy and completeness

Accurate classification

Utilizes advanced machine learning to classify adverse events, product quality complaints and medical inquiries

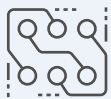
Automated data entry

Auto-populates essential fields required for the initial case intake, reducing manual efforts and errors

Real-time monitoring

Provides real-time monitoring of digital content for immediate action and response to adverse events and product quality complaints

Major differentiators



Advanced AI algorithms

Utilizes state-of-the-art AI algorithms for precise identification and extraction of adverse event and product quality complaint data



Customization capabilities

Tailored to fit specific organizational needs and adapt to evolving regulatory requirements

Frameworks



Machine Learning (ML)

Employs ML for data extraction, classification and predictive analytics



Natural Language Processing (NLP)

Utilizes NLP to extract structured information from unstructured data sources



MedDRA standardization

Adheres to MedDRA standards for accurate medical term coding

The benefits



Enhanced efficiency

Streamlines the adverse event intake process, optimizing resource utilization and increasing scalability and organizational agility



Improved accuracy

Reduces errors in adverse event classification, reporting through intelligent automation and training/retraining of the staff into the process



Timely response

Enables prompt and proactive response to adverse events, promoting patient safety

AlertAE transforms the way adverse event data is managed, extracted and utilized. By leveraging advanced AI technologies, seamless integration capabilities and flexible customization options, AlertAE enhances efficiency and accuracy and promotes patient safety in the pharmacovigilance landscape. Stay at the forefront of pharmacovigilance with AlertAE, ensuring proactive and effective management of adverse events.

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