

averbis

text analytics

2021

Averbis GmbH Literature Classification for Life Sciences

powered by



Averbis | ©2021



Averbis in a nutshell

Averbis is a text analytics company specialized in Machine Learning and Natural Language Processing (NLP)

Our solution



Al assisted Machine Learning/Text Mining
Platform for Pharma

FROM BADEN-WÜRTTEMBERG TO THE WORLD

AVERBIS IS AWARDED AS AI CHAMPION





Hospitals













■IQVIA[™]

RHENUS

SAP





























Literature Research in Life Sciences

Save up to 80% of your effort and get better results

Today

Using (complex) keyword queries on literature databases

- leads to many irrelevant results (~85%)
- is still not complete
- Stop wasting time on an endless amount of manual work!
- Improve accuracy!
- Make data-driven decisions!
- Focus on the interesting work only!

Tomorrow

Make your literature research more efficient with Al







Challenges of todays Literature Research

Save up to 80% of your effort and get better results



Challenges of modern literature research

- The amount of newly published literature is increasing rapidly
 - The resources needed to analyze more literature are costly and not efficient
 - Time spent on manual research could be used more effectively on other work

Manual Literature Research





Let's talk about successful use cases

Already productive use cases:

- ✓ Al based literature research
- ✓ Scientific Literature Classification
- ✓ Pharmacovigilance / Adverse Event detection¹
- **✓** Systematic Literature Review²
- ✓ Technology, Patent and Competitor monitoring

Tomorrow:

Your specific literature research project

What our Customers say

Nicolas Lalyre

Syngenta Head IP Operations

The automatic identification of patent specifications relevant to us has significantly increased productivity in our department. The cooperation with Averbis is extremely pleasant – this is really about solving my problems!



1: presented at Pharmacovigilance Conference 2020 with Bayer 2: published at ISPOR 2020 with Roche





Literature Classification in Life Sciences

What does Averbis Information Discovery do?







Averbis ML/Text Mining engine

- Text Mining
- Semantic Search
- Machine Learning
- Terminologies



Averbis Output

- Apply individual filters and annotators
- Receive relevant accuracy statistics





Structured and tagged literature heap **exportable** to your systems (DMS, BI Tools,...) via APIs





Information Discovery features







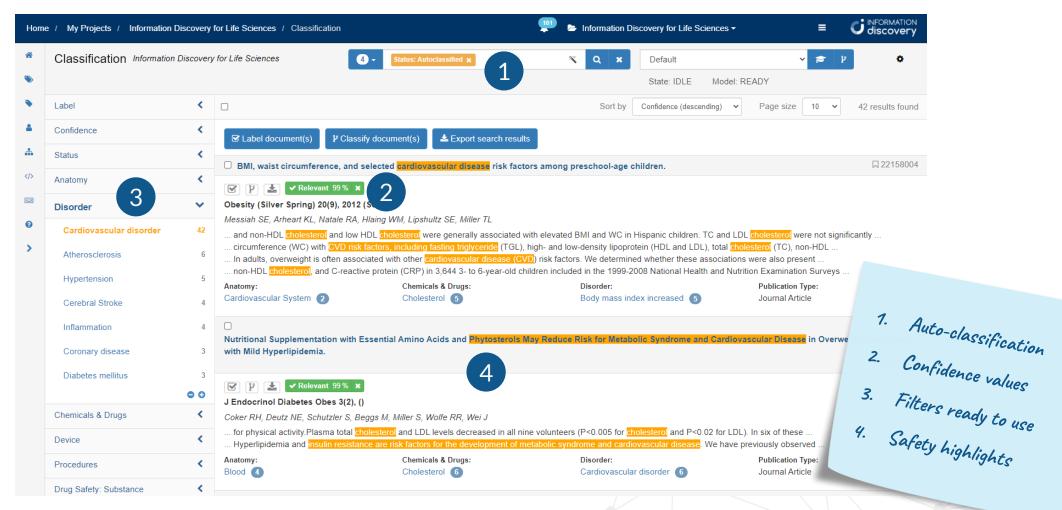
Information Discovery features







Classification Results



Filtering and indexing: Publications and articles get sorted into topics and relevant text is highlighted automatically (Screenshot taken from the Information Discovery dashboard)





Use of Classification and Extraction Results

Custom visualizations (e.g. PowerBI, Tableau)

Post-processing, further analysis and transfer results to other applications

Integration in your processes and infrastructure via API

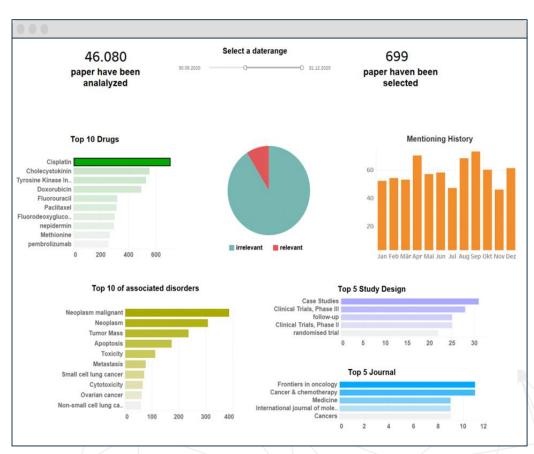


Tableau output: Export your data directly from Information Discovery into Tableau or Power BI for custom views of your results.





Use Case: Systematic Literature Review with Al

Reduce your workload and shrink the approval timeline

Save up to 75% of time and costs!

In an industry where time to market is crucial and quality is key you want a solution that offers both. Currently SLRs are performed manually in a time and resource consuming process.

With our text mining and machine learning approach you can save time and effort with transparent and reproducible results.

An example of this can be seen in the shown results of our SLR project.



Results of the SLR project: ISPOR 2020

"A Systematic Review of Non-Small Cell Lung Cancer Clinical Trial Literature" – Luisa Queiros, Andreas Witzmann, Mateusz Bednarski, Marc Sumner, David Baehrens, Seye Abogunrin

https://europe2020-ispor.ipostersessions.com/Default.aspx?s=DC-D6-E5-F5-DA-F2-D0-1C-56-42-62-C6-63-9D-48-3B



Use Case: Adverse Events Detection

Biomedical Literature

~2 million articles/year







Text Mining/ML



Automatically extract signals

Adverse Events

Company drugs

Competitor drugs

+

Analyze historical decisions

Output

Safety information needed for compliance



Automatically sort the most relevant results on top

Minimize risk of missing AE's

Comply with regulations

e.g. find 30,000 relevant articles/year







The future of literature research



Text Mining / Machine Learning Platform



- Improve Quality and Compliance
- Monitor Technologies and Markets
- Discover New Drugs
- Reduce time to market







Let's talk about your needs!





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