Comparative
Analysis of the
Efficiency of
Techniques for
Detecting
Misinformation
in Healthcare
Data

Alžbeta
Žiarovská

Motivation and
problem

Related Work

Methodology

Analysis and
Results

My Contribution

Comparative Analysis of the Efficiency of Techniques for Detecting Misinformation in Healthcare Data

Engineering Methods 2023/2024

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- Motivation
  - Personal interest in misinformation
  - Learning about machine learning techniques
- Problem
  - Perception of information found on the Internet
  - Everyday use for information retrieval

Related Work

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- Misinformation
  - Misinformation vs. disinformation
  - Medical misinformation
- Machine learning techniques used for information retrieval
  - Naive Bayes
  - Support Vector Machine

Methodology

Comparative
Analysis of the
Efficiency of
Techniques for
Detecting
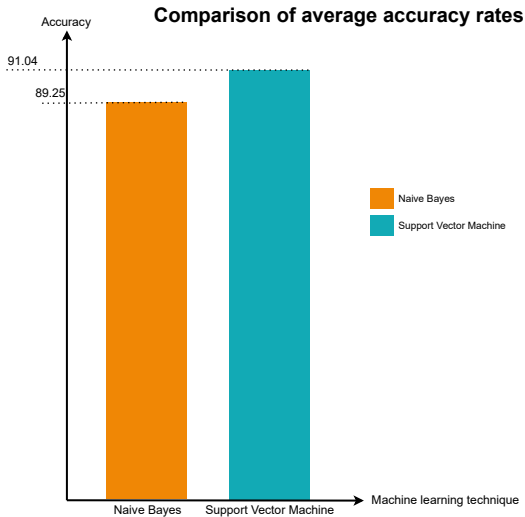Misinformation
in Healthcare
Data

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- Getting general knowledge of the topic
- Introducing the term misinformation
- Introducing Naive Bayes and Support Vector Machine
- Summarizing and comparing the results found in various sources

Analysis and Results

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Naïve Bayes	Support Vector Machine
88.37%	84%
98.71%	94.17%
85.85%	90.95%
84.06%	95.05%

Table: Accuracy of machine learning techniques in misinformation detection according to various researches

Analysis and Results

Comparison of average accuracy rates

My Contribution

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- Relevant data extraction
- Efficient differentiation between false and true information