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The use of artificial intelligence in decisions on asylum applications

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Motivation

Acceleration of the decision-making process: The use of artificial intelligence can significantly speed up the processing of asylum applications, helping to reduce waiting times and improve the management of immigration systems.

Increased objectivity and fairness: The implementation of AI can help eliminate human bias and subjectivity, ensuring fairer and more transparent decision-making in asylum proceedings.

Technical and ethical challenges: Exploring the use of AI in this field provides an opportunity to address important technical and ethical issues, such as transparency, accountability, and bias prevention.

Contribution to scientific and practical knowledge: Research can deepen the understanding of AI's potential and limitations in asylum decision-making and offer recommendations for future implementation and improvement of these systems.

Personal and professional development: Studying this innovative and current topic will provide in-depth knowledge and skills in AI, enriching the author's professional profile.

Conclusion

The main goal of my thesis is to examine and analyze the use of artificial intelligence in the asylum application process. I will review the current state of asylum procedures in selected countries, focusing on how AI is used in migration processes, especially in asylum cases.

Key research questions include: How is AI applied in asylum decision-making? What are its pros and cons? Based on this, I will conduct an analysis and offer recommendations for future use of AI in asylum procedures.

I will also prepare a literature review and evaluate the advantages and disadvantages of AI in asylum processes.

Analysis Techniques

I worked with a dataset of thousands of entries and used the Naive Bayes classifier for its simplicity and efficiency in handling large volumes of data. It performs well with text data, such as asylum applications, and can classify categorical attributes like country of origin. Additionally, I utilized Levenshtein distance to measure text similarity, which helps in comparing names and cities in applications to ensure data consistency. This method is easy to implement and suitable for real-time applications with large datasets.

Results

Acquisition

- **Increased efficiency and speed**: AI can accelerate asylum evaluations and improve data organization.
- **Improved decision-making fairness**: AI can enhance objectivity and reduce human bias.
- **Challenges and risks**: Analysis of ethical and technical issues, such as lack of transparency.
- **Practical recommendations**: Steps for ethical AI use, including regular updates and oversight.
- **Scientific advancement**: Contributes to deeper understanding of AI in asylum processes.
- **Focus on transparency and ethics**: Highlights the need for transparent and ethical AI practices.

example of the result of the evaluation of individual satisfactions in a specific country

Benefits and Challenges

The advantages of AI in asylum processes include faster data processing, predictive analysis, and increased objectivity in decision-making. However, disadvantages include a lack of transparency, the risk of opaque decisions ("black box"), the need for regular data updates, and ethical concerns, such as potential algorithm manipulation and an impersonal approach to individual applicants' situations.