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Protecting Privacy in Multi-modal Datasets: Balancing Anonymity and Value

In today's data-driven world, text data abundance has fueled advancements in natural language processing and machine learning. However, widespread data availability raises concerns about privacy and anonymity. Striking a balance between preserving privacy and extracting insights is crucial. This keynote speech highlights anonymizing various data types, considering privacy protection for text, audio, image, and video datasets. We explore the interplay between anonymity and valuable information extraction. The speech covers privacy risks posed by datasets, including potential identification through sensitive information. Ethical considerations and consequences of mishandling data are discussed, along with real-world examples. Various techniques for text, audio, image, and video data are explored to balance privacy and value. Methods like redaction, noise injection, and differential privacy are discussed, considering their strengths, limitations, and trade-offs. Robust anonymization frameworks that preserve privacy against evolving technologies are emphasized. Regulations and policies protecting privacy in multi-modal datasets are examined, including GDPR, CCPA, LGPD (Brazil), APPI (Japan), and their implications for data handling and anonymization. The need for further legislative measures to adapt to the evolving data privacy landscape is discussed. The keynote speech aims to foster a comprehensive understanding of challenges in protecting personal data and privacy in multi-modal datasets while maintaining their value. It provides insights and strategies for researchers, practitioners, and policymakers to navigate privacy preservation responsibly and develop Ethical AI approaches.

Keywords: Anonymization, Data Privacy, Multi-modal Anonymization, GDPR

Biography:

Dr. Konstantinos Chatzitheodorou is an accomplished authority in the fields of Computational Linguistics and deep machine learning, having demonstrated a high level of proficiency and expertise in these areas.

As the Head of Machine Learning at Pangeanic, Konstantinos leads the development and execution of the company's machine learning strategy. His responsibilities include designing and deploying machine learning models and algorithms, ensuring the quality and accuracy of the technology, and identifying opportunities for machine learning to make a positive impact. By working closely with stakeholders, Konstantinos can effectively understand their business challenges and apply machine learning solutions to enhance their operations.

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