


Chapter 12


Ethics and Transparency in Secure Web Model Generation

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ABSTRACT

The chapter discusses how ethics and transparency relate to creating secure web models for AI. AI plays a role in secure web development, and the authors consider ethics and transparency as two critical aspects of this subject, which influences users, stakeholders, or society. The examination begins with AI principles, which include fairness, accountability, and privacy requirements. They then get into the problems with secure web models. In this chapter, they break down bias and fairness concerns at the source and find ways to resolve them in web models. This relates to trust and accountability, where transparency and explainability are highlighted. They also provide case studies showing the effectiveness of transparent and explainable AI in increasing user engagement. They also delve into decision-making frameworks to help navigate the ethical dilemmas in AI web development. It then represents the conversation on the atmospherics of empowerment tools, such as monitoring and

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evaluation guidelines for mobilisation implementation practice and governance. To sum up, the authors underline the ethical and transparent views for us to do AI-driven web development. Therefore, they urge all stakeholders to make ethics and transparency the cornerstones of responsible webs.

INTRODUCTION

Overview of the Chapter's Focus on Ethics and Transparency in the Context of Web Model Generation

We need to balance this thirst for new web models with ethical considerations to develop and use the best possible model responsibly. Ethics cover various issues, including data privacy, fairness/accountability, and social impact. Transparency is concerned with the clarity and openness of how models are being built/installed to help these groups understand the decision-making process along with outputs (He et al., 2023; Azam et al., 2023). A prevalent ethical issue is treating people fairly from whose data the models are trained and tested.

Maintaining privacy rights, data collection with consent, and providing anonymisation methods are crucial. Support from the government or another healthcare-related institution is needed when those requirements become burdensome in resource-intensive applications (Kaplan et al., 2023). However, there is an increasing awareness of the requirement for fair decisions that counteract biases that might entrench discrimination or exacerbate inequalities altogether (Landers & Behrend, 2023; Azam, Tajwar et al., 2023). The transparency concept of web model generation refers to the degree to which data sources and methods are disclosed, non-experts can read referral principles, and the algorithmic decision-making process is transparent. This very same openness works to create user trust. Permits for further analysis of model flows

In addition, explicit models help the player explain their own decisions and comprehend their choices in life (Shin, 2021). It is great to be ethical and transparent; however, delivering these things can be uncomfortable, especially in web model development circumstances. This leads companies to the difficult task of providing added transparency while protecting interests and trade secrets (Chakraborty, 2023; Ananna et al., 2023). Beyond this, preventing bias and unfairness necessitates ongoing monitoring and assessment of models over time (Agarwal & Agarwal, 2023). Web model development should adhere to principles of ethics and transparency. If stakeholders adhere to guidelines and play fair, their reward is trust, which decreases risks while exploiting the benefits of web models.

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