

## Ethical and Privacy Concerns in AI-Driven CRM

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### ABSTRACT

AI has changed the game for how organizations interact with their customers on platforms such as Customer Relationship Management (CRM) systems like Salesforce. By personalizing customer experiences according to underlying behavior and analyzing the right data, organizations have been able to predict more accurate business processes. But now with AI-powered CRM Systems, businesses can take this up a notch. Still, there are proper ethical and privacy issues that arise with the introduction of AI in CRM especially among platforms like Salesforce. Among these are concerns about data privacy, algorithmic bias, transparency and accountability. This paper seeks to examine these issues of ethics and privacy in the context of AI based CRM systems like that of Salesforce. It lays out the possible dangers and solutions for mitigation, ensuring that AI-powered CRM systems are deployed responsibly and ethically.

**Keywords:** AI-Driven CRM, Salesforce, Ethics, Privacy, Algorithmic Bias, Data Privacy, Transparency, Accountability, Customer Relationship Management, Ethical AI

### 1. Introduction

CRM or Customer Relationship Management Systems have changed massively over the last few decades from being simple databases to sophisticated platforms capable of handling customer interactions across multiple business touch points. One of the biggest CRM platforms in the world, Salesforce has not been an exception. Salesforce makes it easy to leverage data as a tailwind, bringing personalization of customer experiences, automation of processes and driving business across any industry using Artificial Intelligence (AI).

Artificial intelligence-powered CRM tools, such as Salesforce Einstein - the AI-released into inbound marketing space by its foundation platform (Salesforce) - possess additional technologies like predictive analytics and automated capabilities & natural language processing. In this way, organizations can make sense of customer behavior, predict what people might want and produce personalized interactions which enrich the satisfaction as well as increases loyalty among customers.

Yet as AI continues to be integrated into CRM, questions about the ethics and hazards of these technologies compound. AI is also now better instilled in CRM, prompting considerable dialog around it regarding data privacy and potential bias of algorithms transparency and accountability. This is especially true for Salesforce, which employs in many industries and handles a lot of customer data.

This paper explores the AI driven CRM systems, specially focusing Salesforce and how it leads us into an ethical & privacy disaster. It considers the main risks and challenges that can appear during AI implementation in CRM, describing ways to solve these questions. If organizations keep these aspects of AI use in CRM front and center, then the application can be towards ethical purposes —and customer privacy.

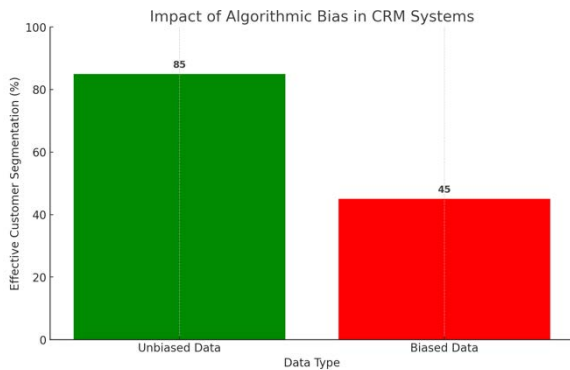
### 2. Ethical Concerns in AI-Driven CRM

#### 2.1 Algorithmic Bias and Fairness

This is a fundamental issue in AI-powered CRM and the first

ethical dilemma we should address algorithmic bias. Since AI systems derive from historical data, if these datasets themselves are association with biases the resultant AI model will uphold or can even exacerbate those prejudices. In Salesforce, you may see algorithmic bias in areas like marketing campaign personalization, customer segmentation and lead scoring.

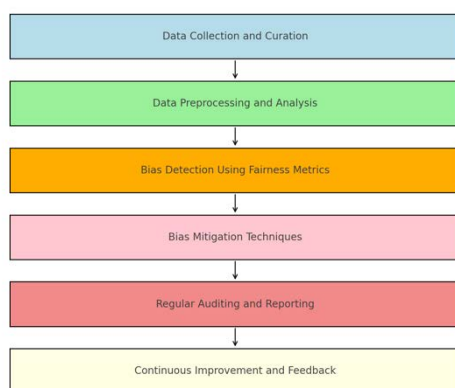
For instance, if an AI model from Salesforce is trained on data containing the bias of years past, then it could lead to a bad outcome that would exclude certain members of your customer base. That may lead to discrimination of customers according to his or her race/gender/socio-economic status. This bias could manifest itself in a CRM system as preferential access to products, services or customer support and put relationships with the client (and the reputation of your clients) at risk.



**Figure 1:** Impact of Algorithmic Bias in CRM systems.

Companies using Salesforce will need to guarantee their AI models are trained on inclusive datasets in order to avoid algorithmic bias. It needs data curation to an extent where the biases in existing systems are not emboldened, and this facilitated with divergent sources of information commercial off-the-shelf datasets fall squarely into ‘biased’ territory. Organizations also should adopt fairness checks and bias detection in their Salesforce CRM implementations. This means that you are auditing your AI models regularly in order to catch and reduce any unintended biases, so that the decisions made by these algorithms using them can truly be fair for everyone.

Bias Detection and Mitigation Process in AI-Driven CRM Systems



**Figure 2:** Bias Detection and Mitigation Process in AI-Driven CRM Systems.

**2.2 Transparency and Explainability**

Transparency and explainability are huge ethical considerations when it comes to AI-driven CRM, especially if you want your customers have confidence in how you use their

data. For Salesforce, transparency means being transparent with customers about how their data is used and AI decisions are processed.

A Salesforce Einstein recommendation engine or an AI-powered predictive analytics algorithm may be used. Still, one of the challenges we face is that these algorithms are usually very complex and hard to interpret for users or customers. This lack of transparency results in a “black box” effect where customers do not know what has gone into the decisions that impact them. It erodes trust in the CRM system and ultimately, across the entire organization.

Explainability is being transparent and understandable as in the explanation of decisions made based on AI. For example, if Salesforce Einstein predicts that a certain lead will convert into sales successfully, explainability would mean sharing the drivers of this prediction. Customers and users should have the capacity to comprehend why certain AI-driven decisions are made so that these decisions appear accurate and just.

The focus on interpretable AI models leads to more transparency and explainability, which helps create accurate representations. These tools include Einstein Prediction Builder, for example - which is a code-free AI model-building feature with built-in explainability. These tools aim to clarify how decisions are made with AI and provide visibility into why predictions or recommendations were created.

**2.3 Accountability and Responsibility**

The issue of accountability is also a key ethical question in the context of AI driven CRM system because, there arises the need to identify who is accountable for decisions that are made by an AI system. Accountability in the context of Salesforce means well-defined responsibility for outcomes produced by AI models with a feedback loop to correct any adverse effects.

For example, AI-powered CRM systems like Salesforce Einstein can take autonomous actions such as suggesting what steps a sales rep should do next or which customer leads to focus on. On the other hand, when those decisions go wrong such as the ones that lead to lost business or unsatisfied customers pinpointing accountability becomes difficult. Is it the person who instilled AI in their system, is it the developers that put together an efficient learning (ML) model or is it the aspiration of artists from its making process itself.

At the same time, industries will have to establish clear accountability for decisions qualified AI-based. This includes defining the role & responsibilities for all of stakeholders, from a data scientist to business user throughout AI lifecycle. Furthermore, organizations should institute strong governance frameworks aimed at not only monitoring and reviewing the results of AI-based decisions but also to correct those as well. Those efforts could include establishing AI ethics boards, or even creating dedicated AI ethics officers charged with ensuring the responsible use of CRM-acquired information.

**2.4 Ethical Use of Customer Data**

An AI-powered CRM systems like Salesforce are very liable to the ethical handling of customer data. At the heart of AI are data, a lot of data is required to train these models, and more importantly the quality and accuracy of this data will affect how accurate or fair our predictive results can be. But the great value AI-driven CRM brings to understanding customer data can also

raise serious ethical issues, with respect to consent and good behavior in both personal-data definitions of GDPR.

Within Salesforce, companies need to ensure that they are collecting customer data in a privacy-respectful and ethical way. It could also mean clearly requiring customers to explicitly opt-in for their data being used in AI-driven voice processes, and making sure that the customer is aware of how his/her information will be put into use.

There are also ethical considerations on the data ownership front that organizations must be aware of as well. Customers provide data to organizations when they interact with them, but the personal information is always owned by customers. As such, organizations should treat customer data with care and only deploy it for the specific reason defined when it was given. That means never using customer data for anything more than honest personalization, such as to prevent things like predatory advertising or creation of culture-bait breadcrumbs.

Developing a data governance framework that centers on the ethical element of its usage is essential to tackle these challenges for all Salesforce users. This includes setting out clear rules for the collection, storage and processing of data while developing mechanisms to enable customers control over their own data perception activities. Furthermore, companies must consistently assess their data policies to ensure they meet both ethical and customer standards.

### 3. Privacy Concerns in AI-Driven CRM

#### 3.1 Data Privacy and Security

Privacy is one of the primary considerations in AI-centric customer relationship management systems such as Salesforce. Because these systems deal with so much customer data, they are vulnerable to cyberattacks and hacking. There are serious privacy implications as well, since it involves use of AI for analyzing customer data (which is also a lot more about misuse or unauthorized access to sensitive person information).

In addition to comprehensive security of customer data e.g. encryption, access control and GDPR compliance), Salesforce being a top CRM platform has employed robust tools for digital transformation as well. AI usage in CRM also opens a new privacy can of worms that must be carefully considered.

Top privacy issues of AI-driven CRM: The age of the algorithms and insights are powerful, but not everything stays behind a black box or wall without any possibility to be leaked. Indeed, AI models might even uncover patterns or correlations that probably divulge the personal identities of patients based on datasets, no matter how anonymized they are. Especially within predictive analytics, where your AI models are making predictions based on patterns in customer data - the above is a real risk.

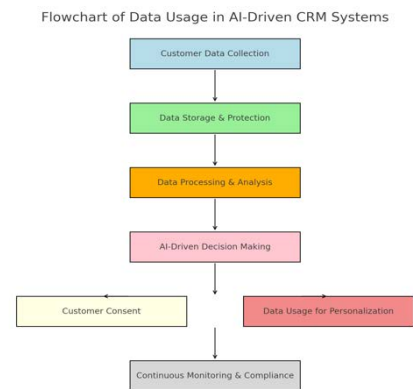
Organizations working with Salesforce should implement privacy mitigations like differential privacy and data anonymization, for the datasets they use inside of their accounts to (partially) mitigate against these risks. In the case of differential privacy, this noise added to data is used to make it impossible for any individual in a dataset being identified and on the other hand, when we talk about Data anonymization or simply anonymized data, that refers to removing identifying information from datasets. Likewise, organizations must also

perform consistent privacy impact assessments to assess the risk involved with AI-based CRM and measures should then be implemented.

#### 3.2 Consent and Data Usage

Privacy in AI-driven CRM systems includes the need for example, to gain informed consent of customers data. In terms of Salesforce, however, it means organizations need to be very clear about how they use customer data in specific AI driven processes. Key elements of user consent include presenting information in a clear and easily understood way, outlining the purposes for which data will be used as well as types of data that might get collected, and informing potential risks associated with processing their system.

But getting informed consent around AI-driven CRM can be difficult, particularly because of the complexity in how these algorithms function. Customers may not fully understand the implications of consenting to the use of their data in AI-driven processes, particularly if the AI system is a “black box” that provides little insight into its decision-making process



**Figure 3:** Flowchart of Data Usage in AI-Driven CRM Systems.

Organizations that use Salesforce must therefore ensure they operate as transparently as possible when it comes to their data usage practices and be open with customers about how their information will be handled. This requires providing your clients with transparent explanations of how and why their information is being processed through AI, what the outputs are used for or any possible impacts on privacy. Organizations should also allow their customers to opt out of some data usage practices if they find it questionable that the organization uses this data.

In addition, the idea of “informed consent” needs to be revisited in an AI led CRM landscape. Because AI systems can be extremely complex, customers may have difficulty understanding the exact implications of consenting to data use. Thus, businesses must think about exercising for more flexible method of consent like dynamic consent which will keep customers informed on how their information is used and allow them to change their preferences regularly.

#### 3.3 Compliance with Data Protection Regulations

Organizations that rely upon AI-powered CRM systems such as Salesforce must ensure compliance with data protection and other regulations to maximize their investment in these platforms. This is this environment that digital privacy has become increasingly regulated through legislation such as the General Data Protection Regulation (GDPR), in Europe and

with laws at State level like California Consumer Privacy Act (CCPA) requiring reasonable measures be taken to protect data from unauthorized access, acquisition or exfiltration. They are rules to protect your privacy and ensure that organizations treat personal data in a safe way.

Salesforce, being the world's number 1 CRM platform is built in a way that supports compliance of such regulations by offering tools and features to safeguard data. For instance, Salesforce provides encryption for data in transit and rest; access control for any external and internal user of the customer org.; audit logs to check who accessed when.

But the use of AI in CRM creates its own compliance issues. Because AI often demands datasets of large sizes in order to work well, and such data often contains personal information that is going under regulatory oversight. Organizations must comply with strict data protection regulations as well when it comes to AI-powered CRM systems, in areas such obtaining consent (ensuring its clear and plain; no pre-ticked checkboxes), maintaining accurate records of personal information stored, allowing anyone the right to be forgotten or request access their own data.

Organizations must periodically audit their Salesforce CRM to ensure they are compliant with safe sailing practices. These audits have to be done, first when it comes on how data is collected, processed and stored, also take a look at AI models that are used for your CRM. Similarly, organization must collaborate with legal and compliance departments so that their AI uses in networking matches regulatory laws.

### 3.4 Data Minimization and Purpose Limitation

Data minimization and purpose limitation are key principles of data protection that are particularly relevant in the context of AI-driven CRM. Data minimization involves collecting only the data that is necessary for a specific purpose, while purpose limitation requires that data be used only for the purposes for which it was originally collected.

In the context of Salesforce, these principles are important for ensuring that customer data is not collected or used excessively. AI-driven CRM systems have the potential to collect vast amounts of data from various sources, including social media, online behavior, and transaction history. While this data can be valuable for generating insights and personalizing customer interactions, it also increases the risk of privacy violations.

Organizations using Salesforce should implement data minimization practices to ensure that they are only collecting the data that is necessary for their CRM activities. This may involve conducting data inventories to assess the types of data being collected and reviewing data collection practices to ensure that they align with the principle of data minimization. Additionally, organizations should clearly define the purposes for which data is collected and ensure that it is not used for any other purposes without obtaining additional consent from customers.

### 3.5 The Risk of Data Re-identification

One of the significant privacy risks in AI-driven CRM is the potential for data re-identification. Even when data is anonymized, AI algorithms can sometimes piece together information from different datasets to re-identify individuals. This risk is particularly relevant in the context of predictive analytics, where AI models analyze patterns and correlations in

data to make predictions.

In Salesforce, data re-identification can occur if AI models are trained on datasets that include quasi-identifiers, pieces of information that, when combined with other data, can be used to identify individuals. For example, data points such as age, gender, and location may not identify a person on their own, but when combined with other information, they could lead to re-identification.

To mitigate the risk of data re-identification, organizations should implement privacy-preserving techniques such as differential privacy, which adds noise to data to prevent the identification of individuals. Additionally, organizations should conduct regular assessments of their AI models to identify and address any potential re-identification risks.

### 3.6 The Challenge of Data Sovereignty

Data Sovereignty means that data is bound by the laws and governance structures of the country in which it is collected. This really is a big problem especially when you are talking about AI driven CRM systems as far from data sovereignty, certainly if your organization operates in different countries.

Customer data is often collected by companies using Salesforce and this customer data can be stored or processed in various countries. This can pose problems for data sovereignty, since not all countries have the same data protection laws. Given that the GDPR mandates tight restrictions on exporting personal data beyond Europe, other countries may have lower levels of data protection.

When you use a CRM that is not only trusted worldwide, but also nationally driven and powered like Salesforce by its local brands in each region where it operates, there are great challenges to handle key rules such as requirements on data sovereignty meaning, the way organizations manage their confidential information within territories divided into jurisdictions based mainly on geography or nationality. This may mean establishing data localization, such as when the entity keeps its information within national borders or using cloud services concerned with local data protection laws.

## 4. The Role of Ethical AI in CRM

With ethical AI, the creation and use of good AI is outlined by being fair (less bias), transparent & accountable. Ethical AI for CRM can be defined as the practice of designing and applying models with an attention to customer rights along with a positive approach in action into your PSP.AI driven process.

Salesforce has worked to advance guidelines for the responsible use of AI in CRM, including its Ethical Use Advisory Council that focuses on ethical consideration related to Artificial Intelligence technologies. Salesforce has also created tools and frameworks for enabling the implementation of ethical AI in organizations, eg., Einstein AI Ethics Guidelines that provide recommendations on building fair and interpretable models.

All companies that use Salesforce as part of their operation can show a commitment to ethical AI principles by making them an embedded part of the design and deployment processes they have in place. This can include designing ethical-risk assessments to highlight specific ethics and fairness risks, developing processes using utility-based decompositions from ex ante design tools (or classification analysis) or post hoc



explainability-generating algorithms. The provision of ethical AI can also build trust with customers and help drive adherence to the use of CRM within the organization.

## 5. Conclusion

Systems such as Salesforce, an AI-driven CRM (Customer Relationship Management) tool can help re-shape Customer Relationships by creating Personal Experience and also Optimize Business Processes and Drive Growth. However, the process of combining AI with CRM also brings its own set of ethical and privacy-related challenges that need to be kept in mind.

The primary ethical considerations arising from AI-powered CRM are algorithmic bias, transparency, explainability and accountability. What orgs can be doing now to close the trust gap is ensure their AI models remain fair, transparent and accountable. Also, it is essential to leverage customer data in a privacy-compliant and ethical manner, ensuring respect for the rights of individuals who have provided their informed consent while adhering to all relevant legal limitations.

Concerns regarding privacy in AI-driven CRM are worrisome and for mostly around the box of data protection laws that include what amount of usage is sanctioned, consent given by consumers for their data operation and certainly with how secure all this huge storage buckets constitutes. Organizations need to deploy a suite of comprehensive privacy practices, such as those for data minimization and differential privacy while meeting standards in compliance with regional laws on social trust.

Responding to these moral and security issues, not only can firms grasp that their usage of AI-based CRM systems including Salesforce is on the proper lane but also oriented with honest norms as well. This ensures the customers rights are preserved and supported for long term sustenance of AI driven CRM initiatives.

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