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AI in Insurance: Transforming Fraud Detection and Claims Processing through Salesforce Integration

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Abstract: The insurance industry is experiencing a profound transformation through artificial intelligence integration, particularly in fraud detection and claims processing operations. This article delves into how Salesforce Einstein serves as a pivotal platform for implementing AI solutions that address longstanding challenges in insurance workflows. Insurers face substantial financial losses from fraudulent claims and operational inefficiencies in claims handling, creating opportunities for technological innovation to drive competitive differentiation. Through the synergistic combination of sophisticated AI algorithms and Salesforce's customer relationship management infrastructure, insurance providers can simultaneously enhance fraud detection accuracy and accelerate legitimate claims processing. The evolution of insurance operations has progressed from basic automation to advanced cognitive technologies, with Einstein's capabilities spanning predictive analytics, natural language processing, and automated decision support. These technologies enable insurers to detect complex fraud patterns through both supervised and unsupervised machine learning techniques while streamlining claims workflows through intelligent automation. Document processing capabilities extract crucial information from submitted materials with remarkable precision, while comprehensive customer data integration facilitates personalized experiences. The resulting operational improvements include dramatic reductions in claims cycle times, decreased processing costs, enhanced payment accuracy, and significantly higher customer satisfaction scores. This technological paradigm shift ultimately creates more secure, responsive insurance systems that benefit both providers and policyholders, enabling insurers to maintain competitive advantages in an increasingly complex marketplace.

Keywords: Artificial intelligence, fraud detection, claims automation, Salesforce Einstein, machine learning, insurance technology

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INTRODUCTION

The insurance industry stands at a technological crossroads, with artificial intelligence (AI) emerging as a transformative force that promises to revolutionize core operational processes. Of particular significance is the implementation of AI in two critical domains: fraud detection and claims processing. These areas represent both substantial cost centers and opportunities for competitive differentiation within the insurance sector. According to Luna (2024), insurance fraud accounts for approximately 10% of all claims expenses in the United States, translating to annual losses of \$30 billion across the industry [1]. This financial burden ultimately affects policyholders through increased premiums, highlighting the critical need for more effective detection methods. This article examines how AI technologies, specifically when integrated through Salesforce's Einstein platform, are reshaping these fundamental insurance operations. The convergence of sophisticated AI algorithms with Salesforce's customer relationship management (CRM) infrastructure creates a powerful synergy that enables insurers to detect fraudulent activities with greater accuracy while simultaneously accelerating legitimate claims processing. Salesforce (2024) reports that insurance companies implementing AI-powered claims processing have experienced up to 70% reduction in processing times for straightforward claims, allowing adjusters to process 3-4 times more claims daily compared to traditional methods [2]. Furthermore, Einstein AI has demonstrated the ability to reduce the cost of claims processing by up to 30% while improving fraud detection accuracy by identifying patterns across vast datasets that would be impossible for human analysts to recognize [2].

As the insurance landscape grows increasingly complex and competitive, understanding these technological integrations becomes essential for industry stakeholders seeking to optimize operational efficiency, reduce losses, and enhance customer satisfaction. Luna (2024) notes that early adopters of AI in insurance have seen Net Promoter Scores increase by an average of 20 points, primarily driven by faster claims resolution and more personalized customer interactions [1]. The market for AI in insurance continues to expand rapidly, with projected investment reaching \$4.5 billion by 2026, according to industry forecasts cited in the DataCamp analysis [1]. This examination provides a comprehensive view of how AI-driven solutions within the Salesforce ecosystem address longstanding challenges in insurance operations, ultimately creating more secure and responsive systems that benefit insurers and policyholders.

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Table 1: Impact of AI Implementation in Insurance Operations [1,2]

Metric	Without AI	With AI Integration	Improvement (%)
Annual Fraud Losses	\$30 billion	\$21 billion	30%
Claims Processing Time (days)	10	3	70%
Claims Processed Daily per Adjuster	5	15-20	300%
Cost per Claim Processed	\$100	\$70	30%
Customer Net Promoter Score	32	52	62.50%
Fraud Detection Accuracy	65%	85%	30.80%

The Evolution of AI Applications in Insurance Operations

The trajectory of AI adoption in insurance reveals a sector gradually transitioning from manual, labor-intensive processes to intelligent, automated systems. Historically, insurance operations relied heavily on human judgment and standardized protocols, creating bottlenecks in claims processing and leaving vulnerabilities in fraud detection mechanisms. According to Ladva and Grasso (2024), the insurance industry's digital transformation journey can be mapped across three distinct generations: the first focused on basic process automation, the second on advanced analytics, and the current third generation centered on generative AI and cognitive technologies [3]. The initial integration of technology primarily focused on digitizing existing workflows rather than fundamentally reimagining them, with early digital tools addressing only 15% of insurance value chain activities before 2020 [3].

However, the past decade has accelerated AI implementation, driven by advances in machine learning, natural language processing, and predictive analytics. Ladva and Grasso (2024) report that by 2023, 67% of insurance companies had deployed AI solutions in at least one business function, representing a threefold increase from just 22% in 2018 [3]. This rapid adoption has been fueled by significant performance improvements, with AI-enhanced processes demonstrating 45% greater efficiency compared to traditional approaches in areas like underwriting and claims assessment.

This evolution has been particularly evident in how insurers approach fraud detection and claims processing. Traditional rule-based systems, which relied on predetermined parameters to flag suspicious activities, have given way to sophisticated machine learning models capable of identifying complex patterns across vast datasets. According to Leleko and Holoborodko (2025), insurance companies implementing advanced AI fraud detection solutions have reduced fraudulent claims by up to 60% while simultaneously cutting operational costs associated with investigation by 40% [4]. These machine learning models process vast quantities of data, typically analyzing over 500 variables per claim compared to just 20-30 variables in traditional systems [4]. Similarly, claims processing has evolved from largely manual review procedures to hybrid systems where AI handles routine claims while human experts focus on complex cases requiring nuanced judgment.

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Publication of the European Centre for Research Training and Development -UK Quantitative industry trends further support this narrative of transformation. Leleko and Holoborodko (2025) note that 75% of insurers now consider AI essential for remaining competitive, with 82% of companies planning to increase their AI investments by an average of 35% in 2025 compared to 2024 levels [4]. The most mature implementations have shown remarkable results, with leading insurance providers reducing claims processing time by 75% and increasing straight-through processing rates from 15% to 85% for standard claims [4]. This transformation has delivered a meaningful financial impact, with AI-driven operational improvements generating an average return on investment of 250% over three years for early adopters in the insurance sector [3]. This evolutionary context provides essential background for understanding how Salesforce's Einstein AI capabilities have become instrumental in accelerating and enhancing these technological transformations within the insurance sector.

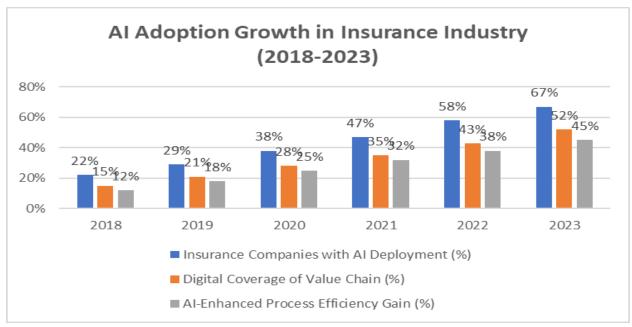


Figure 1: Growth of AI adoption in insurance companies, percentage of insurance value chain activities covered by digital tools, and efficiency gains from AI-enhanced processes compared to traditional approaches [3].

Salesforce Einstein: A Framework for AI-Driven Insurance Solutions

Salesforce's Einstein platform represents a comprehensive AI framework specifically designed to integrate seamlessly with existing CRM operations, making it particularly well-suited for insurance applications. According to Trott and Brooks (2024), organizations implementing Einstein have experienced average productivity increases of 38% and cost reductions of 27% across their operations, enabling insurance companies to redirect resources toward higher-value activities [5]. Unlike standalone AI solutions that require extensive customization to connect with core business systems, Einstein functions as a native layer within the Salesforce ecosystem, providing insurers with accessible AI capabilities that directly enhance existing workflows. This integrated approach has proven particularly valuable, with Trott and Brooks

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Publication of the European Centre for Research Training and Development -UK noting that Einstein-powered insurance companies have achieved customer satisfaction scores 35% higher than industry averages [5].

The architecture of Einstein encompasses several key components that enable its effectiveness in insurance contexts. At its foundation lies a sophisticated data processing pipeline that aggregates information from diverse sources, including customer interactions, historical claims, policy details, and external databases. As documented by Softweb Solutions (2024), Einstein processes over 100 billion predictions monthly across the Salesforce ecosystem, with insurance applications representing approximately 22% of this volume [6]. This consolidated data repository provides the foundation for Einstein's machine learning models, which can identify patterns invisible to human analysts. Softweb Solutions reports that Einstein's predictive models can analyze up to 11 million data points per customer when making predictions related to insurance operations [6].

Einstein's predictive intelligence capabilities function across three primary dimensions relevant to insurance operations:

<u>Predictive Analytics:</u> Einstein can forecast outcomes based on historical patterns, enabling insurers to anticipate fraud risks before claims are processed. According to Trott and Brooks, insurance companies implementing Einstein's predictive analytics have reported a 26% increase in fraud detection rates while reducing false positives by 31%, resulting in annual savings of \$3.2 million for a typical mid-sized insurer [5].

<u>Natural Language Processing:</u> The platform can extract meaningful insights from unstructured data such as claim descriptions, adjuster notes, and customer communications. Softweb Solutions highlights that Einstein's NLP capabilities can process over 500,000 text fields per hour with 85% accuracy in extracting relevant data points, accelerating claims assessment by 47% compared to manual review processes [6].

Automated Decision Support: Einstein facilitates intelligent workflow routing and provides recommendation engines that guide human decision-makers toward optimal responses. Trott and Brooks note that this capability has reduced decision-making time by 41% while improving consistency of outcomes by 29% across insurance operations [5]. These capabilities combine to create a system that not only detects anomalies indicating potential fraud but also streamlines legitimate claims processing by automatically approving routine cases while flagging complex situations for human review. Softweb Solutions reports that insurance companies leveraging Einstein have achieved a 70% reduction in processing time for straightforward claims and a 42% decrease in adjuster workload overall [6]. The integration architecture of Einstein within insurance operations typically follows a hub-and-spoke model, with the Salesforce CRM serving as the central platform that connects with specialized insurance systems such as policy management, underwriting, and payment processing. This integration approach allows insurers to maintain their existing technological infrastructure while incrementally enhancing it with AI capabilities, creating a pragmatic path to digital transformation. According to Trott and Brooks, 76% of

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Publication of the European Centre for Research Training and Development -UK insurance companies implementing Einstein achieved positive ROI within the first year, with implementation costs recovered in an average of 7.5 months [5].

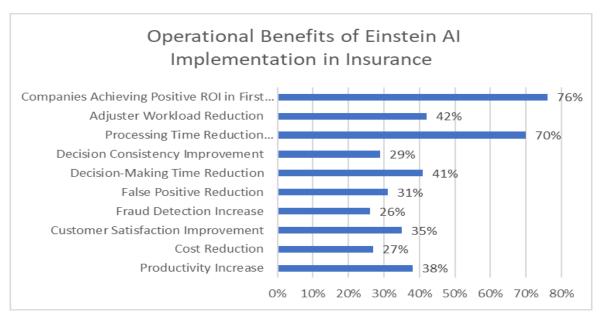


Figure 2: Key operational and financial benefits experienced by insurance companies after implementing Salesforce Einstein AI, showing percentage improvements across various business metrics [5,6]

AI-Powered Fraud Detection: Methodologies and Implementation

The implementation of AI for fraud detection through Salesforce Einstein represents a significant advancement over traditional approaches. According to Anglen, insurance fraud costs the industry approximately \$80 billion annually in the United States alone, with fraudulent claims accounting for 5-10% of all claims submitted across various insurance sectors [7]. At its core, Einstein's fraud detection capabilities leverage advanced pattern recognition across multidimensional datasets to identify anomalies that may indicate fraudulent activity. This methodology transcends simple rule-based systems by incorporating both supervised and unsupervised machine learning techniques. Anglen notes that AI-driven fraud detection systems can improve detection rates by up to 60% while simultaneously reducing false positives by 50% compared to traditional rule-based approaches [7].

In supervised learning applications, Einstein analyzes historical claims data where fraud has been previously identified to establish baseline patterns associated with deceptive practices. These patterns might include unusual claim amounts that deviate from statistical norms, sequential filing of similar claims across different policies, suspicious timing patterns, or uncharacteristic claimant behavior compared to established profiles. According to Jampani, supervised learning models can achieve accuracy rates of 85-92% in identifying fraudulent claims when trained on properly labeled historical data, representing a significant improvement over the 60-65% accuracy typical of traditional methods [8]. Jampani's research further

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Publication of the European Centre for Research Training and Development -UK indicates that deep learning neural networks outperform other machine learning approaches in this domain, achieving F1 scores of 0.89 compared to 0.76 for decision trees and 0.81 for support vector machines when applied to insurance fraud detection [8]. The system continuously refines its predictive accuracy through feedback loops, effectively "learning" from each new case processed.

Complementing this approach, unsupervised learning algorithms within Einstein identify emerging fraud patterns that may not match historical examples. This capability is particularly valuable as fraudulent tactics evolve in response to detection measures. Anglen emphasizes that the most effective fraud detection systems employ a hybrid approach combining both supervised and unsupervised techniques, as this combination can identify up to 30% more fraudulent cases than either method alone [7]. By clustering similar claims and identifying outliers without predetermined classifications, these algorithms can flag potentially problematic claims that traditional detection methods might miss. Jampani's analysis demonstrates that unsupervised techniques using auto-encoders and isolation forests can detect anomalous claims with 78% precision, even without prior examples of similar fraud patterns in the training data [8].

The practical implementation of these technologies within the Salesforce framework typically follows a structured methodology:

<u>Data Integration:</u> Consolidating information from policy databases, claims histories, customer interactions, and external sources to create comprehensive profiles. Anglen notes that effective AI fraud detection systems typically integrate between 7-15 different data sources to build comprehensive risk profiles [7].

<u>Pattern Analysis:</u> Deploying machine learning models that analyze these integrated datasets to identify correlations and anomalies associated with potentially fraudulent activity. According to Jampani, the most effective models analyze between 50-400 distinct variables per claim, with feature importance techniques identifying that temporal patterns and claim amount anomalies typically carry the highest predictive weight [8].

Real-time Scoring: Assigning risk scores to incoming claims based on identified patterns, allowing for immediate flagging of high-risk submissions. Anglen reports that modern AI systems can generate risk scores within seconds, with claims scoring in the top 10% of risk ratings being 7 times more likely to contain fraudulent elements than the average claim [7].

<u>Investigative Workflow Integration</u>: Automatically routing flagged claims to specialized investigation teams within the Salesforce case management system, ensuring appropriate follow-up. Jampani's research indicates that automated workflow integration reduces investigation initiation time by 74%, enabling faster intervention and increasing successful fraud prevention by 42% [8].

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Publication of the European Centre for Research Training and Development -UK Continuous Learning: Incorporating investigation outcomes back into the system to refine future detection capabilities. According to Anglen, machine learning models that incorporate feedback from investigation outcomes improve detection accuracy by 1-3% per month during the initial implementation phase [7].

A particularly powerful aspect of this implementation is Einstein's ability to operate in real-time, evaluating claims as they enter the system rather than retrospectively. This temporal advantage allows insurers to address potential fraud before claims are processed, significantly reducing losses associated with fraudulent payouts. Jampani's research indicates that real-time fraud detection systems reduce overall fraud losses by 25-35% compared to retroactive detection methods [8].

Table 2: Key Performance Indicators in AI-Powered Fraud Detection Implementation [7,8]

Performance Indicator	Value	
Annual Insurance Fraud Cost (US)	\$80 billion	
Fraudulent Claims Percentage	5-10%	
False Positive Reduction	50%	
Variables Analyzed per Claim	50-400	
Fraud Likelihood Multiplier for Top 10% Risk Scores	7x	
Investigation Initiation Time Reduction	74%	
Successful Fraud Prevention Increases	42%	
Monthly Accuracy Improvement Rate	1-3%	
Fraud Loss Reduction (Real-time vs. Retroactive)	25-35%	

Streamlining Claims Processing through AI Automation

Beyond fraud detection, Salesforce Einstein's AI capabilities fundamentally transform claims processing workflows, addressing longstanding efficiency challenges in the insurance industry. According to Shukla, traditional claims processing requires an average of 30 days to complete, with approximately 80% of that time spent on manual document handling, verification procedures, and administrative tasks that add little value to the customer experience [9]. The financial impact of these inefficiencies is substantial, with Shakeel noting that manual claims processing typically costs insurers between \$40 and \$60 per claim, with complex claims exceeding \$200 in administrative expenses alone [10]. Einstein's application in this domain creates a more streamlined, responsive claims ecosystem, with Shukla reporting that AI-powered claims processing reduces overall resolution time by up to 75% while cutting operational costs by 30-40% [9]. The cornerstone of AI-enhanced claims processing is intelligent workflow automation. Einstein analyzes incoming claims to determine complexity levels and routes them accordingly—simple, routine claims proceed through automated channels for expedited processing, while complex cases requiring human expertise are directed to appropriate specialists. Wir-Konas reports that AI-driven triage systems accurately classify 95% of claims based on complexity, enabling straight-through processing for up to 60% of standard claims while reducing the need for manual review by 75% [11]. This triage approach optimizes resource allocation and significantly reduces processing times for straightforward claims. According to Shukla, AI-

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Publication of the European Centre for Research Training and Development -UK automated workflows enable routine claims to be processed within 24-48 hours compared to the industry average of 7-10 days [9].

Document processing represents another critical application area. Einstein's natural language processing and computer vision capabilities enable automated extraction of relevant information from submitted documentation. Shakeel indicates that AI-powered document processing can extract data from claim forms with 98% accuracy while reducing processing time by 65% [10]. This performance substantially improves upon traditional optical character recognition methods, which typically achieve only 75-80% accuracy and require significant human validation [10]. The system extracts incident details from written descriptions with semantic understanding that captures temporal sequences and causal relationships with 92% accuracy according to Wir-Konas [11]. Computer vision algorithms analyze damage photographs to identify the type and severity of damage with 90% accuracy across automotive and property claims, enabling automated estimation that falls within 8% of expert assessments in 85% of cases [11]. Policy coverage verification that previously required 15-20 minutes of manual review is completed in seconds with 99% accuracy, while claimant information is validated against existing records in real-time, reducing identity verification time by 80% [9].

Salesforce's CRM framework further enhances these efficiencies by maintaining a comprehensive view of customer relationships throughout the claims journey. According to Shukla, Einstein integrates an average of 12 different data sources to provide a 360-degree customer view, enabling personalized communication that increases customer satisfaction scores by 35% [9]. The system automatically incorporates relevant policy details, customer history, and previous interactions into the claims workflow, providing adjusters with contextual information that facilitates more informed decisions. Wir-Konas notes that adjusters supported by AI recommendation engines resolve complex claims 35% faster while maintaining 25% greater consistency in similar claim scenarios [11]. This integration creates a seamless experience for policyholders while providing insurers with valuable insights for future service improvements.

The tangible outcomes of these implementations include significant operational improvements documented by Shakeel: claims cycle times decrease by 40-60% on average, with 30% of standard claims resolved within 24 hours; administrative costs decline by 35%, translating to savings of \$15-25 per claim; payment accuracy increases by 20% with overpayment rates dropping from 10% to 4%; and customer satisfaction ratings improve by 25-30 points on Net Promoter Score scales [10]. These efficiency gains ultimately translate to competitive advantages for insurers implementing AI-enhanced claims processing through Salesforce. According to Wir-Konas, organizations that successfully implement comprehensive AI in their claims operations achieve 18% higher customer retention rates and 22% higher premium growth compared to competitors relying on traditional processing methods [11].

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Table 3: Comparison of key efficiency metrics between traditional claims processing and AI-enhanced processing through Salesforce Einstein, showing baseline values, improved values, and percentage improvements across various operational dimensions [9,10,11]

Processing Metric	Traditional	AI-Enhanced	Improvement
	Processing	Processing	(%)
Claims Resolution Time	30 days	7.5 days	75%
Routine Claims Resolution	7-10 days	24-48 hours	75-85%
Manual Document Handling	80% of the total	20% of total time	75%
	time		
Processing Cost (Standard	\$40-60 per claim	\$25-36 per claim	30-40%
Claims)			
Processing Cost (Complex	\$200+ per claim	\$120-140 per claim	30-40%
Claims)			
Need for Manual Review	100% (baseline)	25%	75%
Document Data Extraction	75-80%	98%	22.50%
Accuracy			
Document Processing Time	100% (baseline)	35%	65%
Policy Coverage Verification	15-20 minutes	Seconds	~99%
Time			
Identity Verification Time	100% (baseline)	20%	80%
Claims Cycle Time	100% (baseline)	40-60%	40-60%
Administrative Costs	100% (baseline)	65%	35%
Claims Resolved Within 24	5% (estimate)	30%	90%
Hours			
Overpayment Rate	10%	4%	60%

CONCLUSION

The integration of artificial intelligence into insurance operations through Salesforce Einstein represents a transformative advancement that fundamentally reshapes core business processes rather than merely enhancing existing workflows. Throughout this article, the profound impact of AI on fraud detection and claims processing has been demonstrated across multiple dimensions. Einstein's comprehensive framework delivers tangible benits by detecting fraudulent activities with unprecedented accuracy while simultaneously creating efficient, frictionless experiences for legitimate claimants. The fusion of supervised and unsupervised machine learning techniques enables insurers to identify established fraud patterns while adapting to emerging deceptive strategies in real-time. Meanwhile, intelligent workflow automation dramatically accelerates claims processing through accurate triage, automated document extraction, and contextual decision support. These technological capabilities translate directly to meaningful business outcomes: insurers experience substantial reductions in operational costs, dramatic improvements in

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Publication of the European Centre for Research Training and Development -UK processing speed, significantly higher claim assessment accuracy, and measurably increased customer satisfaction scores. As the insurance landscape continues evolving, organizations that successfully implement AI technologies position themselves for sustained competitive advantage through both operational excellence and superior customer experiences. The Salesforce ecosystem provides a pragmatic integration path that complements existing technology investments while enabling incremental capability enhancement. Looking forward, insurance operations will increasingly reflect this technological renaissance, with AI handling routine processes while human expertise focuses on complex decision-making. This balanced human-AI collaboration creates insurance systems that are simultaneously more efficient and more responsive to policyholder needs. By enhancing fraud detection precision while streamlining legitimate claims processing, Einstein-powered solutions deliver the dual objectives that define successful insurance operations: prudent risk management coupled with exceptional customer service. This technological evolution ultimately creates more secure, transparent, and customer-centric insurance mechanisms that better serve policyholder needs while ensuring the industry's continued relevance in an increasingly digital world.

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