

***Data breaches
in the finance
industry in the
last 10 years.***

Major Breaches & Impact

- **First American Financial Corp (2019) – 885M records exposed** (bank details, Social Security numbers).
- **Equifax (2017) – 147M affected** (personal data, credit scores, financial history).
- **Experian (2015) – 15M T-Mobile customers** had sensitive information stolen.
- **Robinhood (2021) – 7M users** compromised, including financial details.
- **LoanDepot (2024) – 16.9M individuals** suffered financial and personal data leaks.

Causes & Solutions for Data Breaches in the Finance Industry

Causes of Data Breaches

- **Cyberattacks (Hacking, Phishing, Ransomware)** – Criminals exploit weak systems.
- **Weak Security Systems** – Poor encryption and outdated software create vulnerabilities.
- **Insider Threats** – Employees (malicious or negligent) mishandle sensitive data.
- **Third-Party Risks** – Vendors with weak security expose financial institutions.
- **Poor Access Control** – Weak authentication leads to unauthorized access.

Consequences of Financial Data Breaches

- ❖ **Financial Losses** – Breaches cost billions in fines, settlements, and security upgrades.
- ❖ **Identity Theft** – Stolen data enables fraud, scams, and unauthorized transactions.
- ❖ **Loss of Trust** – Customers lose confidence in financial institutions, damaging reputation.
- ❖ **Regulatory Actions** – Stricter compliance requirements (e.g., GDPR, CCPA) after major incidents.
- ❖ **Operational Disruptions** – Companies face lawsuits, investigations, and system overhauls.
- ❖ 💡 **Solution:** Stronger cybersecurity, real-time monitoring, encryption, and user education!

Technologies to Prevent Data Breaches

- ✓ **Encryption & Tokenization** – Secures data by making it unreadable.
- ✓ **Multi-Factor Authentication (MFA)** – Strengthens login security.
- ✓ **AI & Machine Learning Security** – Detects fraud and cyber threats in real-time.
- ✓ **Zero Trust Security Model** – Requires continuous identity verification.
- ✓ **Cloud Security & Data Backups** – Protects against ransomware and data loss.
- ✓ **Regulatory Compliance (GDPR, CCPA, PCI-DSS)** – Enforces strict security policies.