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## AI and Machine Learning

- [Maximizing Efficiency: Pairing Code Generators with AI Code Reviewers](#)
- [Optimize Issue Management with CodeRabbit](#)
- [Top 5 AI Code Generation Tools](#)
- [Static code analyzers vs AI code reviewers: Which is Best?](#)
- [When Direct Mail Meets Deep Learning A Perfect Match](#)
- [Why the Future of Direct Mail Marketing is Machine Learning](#)
- [Data for AI: The Fuel that Supercharges Machine Learning](#)
- [Optimizing Data Pipelines for AI Applications](#)
- [Don't Let Bad Data Could Ruin Your AI Dreams](#)
- [Machine Learning Data Catalogs Enhance Data Discoverability](#)
- [QCI, Millionways Partner on Quantum Computing for Machine Learning](#)
- [Quantum Machine Learning Powers Medical Diagnostics](#)
- [Quantum Computing and AI Combine for Drug Discovery](#)
- [How AI is Revolutionizing Data Collaboration](#)

## Blockchain

- [Polygon Edge: Providing Blockchain Sovereignty To Dogechain](#)
- [The Power of Cross-Chain Bridges](#)
- [How Can Value Investors Profit in the Crypto Ecosystem](#)

- [Memechains Take Meme Coins to the Next Level](#)
- [Comdex integrates CosmWasm](#)
- Note: Roughly 30+ articles published in *Crypto Magazine*
- More self-published at [DeFi Currents](#)

## Business Compliance

- [Mastering Security Assurance through Hardening, Testing, and Vulnerability Management](#)
- [Revolutionizing Security Audits: Streamlining Evidence Collection for Efficiency and Cost-Effectiveness](#)
- [Navigating CMMC Certification: A Guide for DoD Contractors](#)
- [Mastering Vulnerability Management: A Guide to CVE and EPSS](#)
- [Corporate Compliance: Test of Design vs. Test of Effectiveness in Internal Controls](#)
- [Navigating Sarbanes-Oxley: A Guide to IT Compliance Essentials](#)
- [The 8 Rights of the CCPA: What are they?](#)
- [Understanding the 7 Core Principles of GDPR](#)

## Business Operations

- [Mastering Inspection Dispatch and Scheduling With Technology](#)
- [Simplify Inspections: Inspection Reporting Software for Data and Compliance](#)
- [Work Order Apps Advance the Shift to Digital](#)
- [How Construction Management Software Is Transforming Jobsite Efficiency](#)
- [The Evolution of Work Orders and Maintenance Management](#)

## Cryptography

- [Breaking Bitcoin: ECDSA vs XMSS](#)
- [Is Bitcoin \(BTC\) Safe from Grover's Algorithm?](#)
- [From Scalpels to Qubits: The Story of the World's First Post-Quantum Blockchain](#)
- More self-published at [The Journal of Quantum Resistance](#)

## Data Engineering

### Data Migration and Modernization

- [SQL Server Migration Made Easy](#)

- [Replicating MongoDB to BigQuery: A practical guide](#)
- [Teradata to BigQuery Migration: Challenges, Best Practices, and Practical Guide](#)
- [Hadoop to Snowflake migration guide](#)
- [Hadoop to Databricks Migration: Challenges, Best Practices, and Practical Guide](#)
- [Netezza to Snowflake Migration: Challenges, Best Practices, and Practical Guide](#)
- [SQL Server to Snowflake Migration: Challenges, Best Practices, and Practical Guide](#)
- [Oracle to Snowflake Migration: Challenges, Best Practices, and Practical Guide](#)
- [Overcoming legacy data migration challenges with confidence](#)
- [Building a data warehouse migration strategy for seamless cloud transitions](#)
- [Data migration risks and how to avoid them](#)
- [Replicating Postgres to Redshift: A practical guide](#)
- [Top 8 CDC tools of 2024](#)
- [How to load data from SQL Server to Snowflake](#)
- [Amazon S3 to Snowflake: A definitive guide](#)
- [Postgres to Snowflake: A Definitive Guide](#)
- [Oracle to Snowflake data migration: A complete how-to guide](#)
- [How to load Jira data into Snowflake: Step-by-step guide](#)
- [How to load data from Salesforce to Snowflake: A definitive guide](#)
- [5 best data pipeline tools \(2024 guide\)](#)
- [What is data mapping?](#)
- [ETL vs ELT A side by side comparison](#)
- [Database migration: tools, strategies, and best practices](#)
- [Data lake architecture: A comprehensive guide](#)
- [ETL process: From data to decisions](#)
- [Best 7 ETL tools of 2024](#)
- [A Modern Data Migration Framework for AI-Powered Success](#)

## Improving Data Quality and Making Transformations Easier

- [Optimize ETL Processes with dbt](#)
- [Using the dbt semantic layer to easily build semantic models](#)
- [dbt seeds What are they and how to use them](#)
- [Crafting a data quality scorecard](#)
- [Data quality moat, this is your guide](#)
- [What is a data catalog?](#)
- [What is data validation?](#)
- [Data quality checks: Why you need them](#)
- [Data warehouse modernization starts with automated validation](#)

## Understanding Databases and How We Store Data

- [PostgreSQL vs. MySQL: What you need to know](#)
- [What is a database? Definition, types & examples](#)
- [Star schema vs. Snowflake: Choose the right fit](#)
- [Data marts: 2025 Guide](#)
- [A deep dive into data lakes](#)
- [What Is The Modern Data Stack?](#)
- [Data lakes vs databases: Key differences explained](#)
- [The top 7 data lake tools of 2024](#)
- [What is a data lake?](#)
- [Database replication: Definition, types, and setup](#)

## Making Data Usable and Actionable

- [Digital marketing analytics: An introduction](#)
- [What is data transformation?: A quick overview](#)
- [Top 8 data transformation tools of 2024](#)
- [What is a data transformation tool?](#)
- [What is data migration?](#)
- [Data Extraction: Everything you need to know](#)
- [Data integration: Definition and guide](#)
- [What is cloud data integration?](#)
- [What is data governance?](#)
- [Top 7 data analytics tools of 2024](#)

## Sharing Data Across Teams and Partners

- [5 epic fails prevented by data collaboration](#)
- [Enhancing Data Exchange with Data Provisioning Processes](#)
- [Data Provisioning vs ETL: What's the Difference?](#)
- [Data Sharing Made Easy with Delta Sharing](#)
- [What's the Difference Between a Data Exchange and a Data Marketplace?](#)
- [Exploring Data Request Automation in Advanced Data Exchanges](#)
- [External and Internal Data Differences in the Data Marketplace](#)
- [How Data Marketplaces Shape Modern Data Products](#)
- [How Data Marketplaces Optimize the Data Request Process](#)
- [Snowflake's Data Exchange: Transforming Data Collaboration](#)
- [Strategic Data Sharing Enhances Data Product Outcomes](#)
- [The Hidden Costs of Poor Data Provisioning](#)

- [The Untold Advantages of Using Internal Data in Sharing Platforms](#)
- [Unlocking the Value of Partner Data in Business Analytics](#)
- [Why a Data Marketplace Isn't Enough](#)

## Building and Managing Data as a Product

- [Data Mesh Principles: A New Approach Data Management](#)
- [Data Mesh: The Future of Data Management](#)
- [Data Productization: Transforming Business Success through Enhanced Data Services](#)
- [The Role of Data Products in Data Analysis and Data Visualization](#)
- [Data Products in Action: Examples and Insights](#)
- [How to Build Data Products that Work](#)
- [How to Build a Robust Data Product Using Your Organization's Internal Data](#)
- [Unlocking Business Value: Data Discovery in a Data Mesh Environment](#)
- [What is a Data Product?](#)

## Creating a Data-Driven Culture

- [What a Data Driven Organization Must Look Like](#)
- [Data Ecosystem Excellence: A Guide to Peak Performance](#)
- [Data Enrichment and the Rise of the Customer-Centric Company](#)
- [Best practices for data requests](#)
- [Best practices for self-service analytics](#)

## Data Analytics

- [Maximizing the Power of Data Catalogs With Revelate and Alation](#)
- [The 6 Most Common Data Quality Issues](#)
- [The Key to Data Insights: Exploring the Benefits of Automated Data Lineage](#)
- [Understanding Data Lineage and Data Catalog](#)
- [The Data Ecosystem Explained: From Basics to Benefits](#)
- [How Data Collaboration Transforms Raw Data Into High-Value Business Intelligence](#)

## Kubernetes

- [Kubernetes Compliance with ISO 27001: A Strategic Imperative](#)
- [Kubernetes Challenges: Container Orchestration and Scaling](#)

# Marketing

## Direct Mail and Omnichannel Marketing Strategies

- [Planning for 2025: Optimize your Omnichannel Marketing](#)
- [When and How to Add a New Channel to Your Marketing Mix](#)
- [Direct Mail Tactics for Effective Prospecting](#)
- [Why Direct Mail Should Be One of Your Primary Channels](#)
- [How Direct Mail Works Alongside Digital Marketing](#)
- [Acquisition Marketing During the Holidays](#)
- [How to Optimize Ad Spend During Holiday Seasons, Especially During Election Year](#)
- [How To Market During an Election Season](#)
- [A Timeline for Holiday Direct Mail Success](#)
- [5 Tips for Your New Year New You Approach](#)
- [Is Direct Mail Brand Safe?](#)
- [Executing High-Impact Direct Mail with Trigger Campaigns](#)
- [Postie's Storefronts: Enhance Targeting & Efficiency](#)

## Using Data to Drive Better Campaigns

- [Level-Up Your First Party Data with CRM Optimization](#)
- [Cluster and Segment Your First Party Data Effectively](#)
- [Data Science Insights: Blending First- and Third-Party Data](#)
- [Segmentation Strategies for Effective Direct Mail Campaigns](#)
- [What are Lookalike audiences?](#)
- [Level Up Your Lookalike Audiences](#)
- [Home Addresses: Key to Precision Marketing](#)
- [A Closer Look at Data Model Development](#)
- [Harness Retail Media Potential with a Customer-Centric Approach](#)
- [Why First-Party Data is More Important than Ever](#)

## Measuring What Matters

- [Mastering Incrementality Across Marketing Channels](#)
- [How to Use Incrementality Metrics to Inform Media Mix Decisions](#)
- [Harnessing Incrementality and Data Science to Drive Results](#)
- [Metrics That Matter: Measuring Direct Mail](#)
- [5 Metrics that Matter just as much \(or more\) than ROAS](#)
- [Optimizing Your Direct Mail ROI: Tips and Strategies](#)

- [How to Increase LTV and Spend Smarter](#)
- [Strategies to Optimize the Cross-Channel Customer Journey](#)

## Direct Mail Innovation

- [The Rise of Retail Media Networks](#)
- [The Power of Algorithms in Direct Mail Marketing](#)
- [Level-Up Your First Party Data with CRM Optimization](#)
- [Automation and Direct Mail: Streamlining Your Campaigns](#)
- [Maximizing Customer Retention with Direct Mail Strategies](#)
- [Why Personalized Direct Mail Boosts Customer Engagement](#)
- [Maximize Customer Engagement with Performance Direct Mail](#)

## Stock Analysis

- [Can Digital Ocean Keep Up Its Strong Growth](#)
- [Powered by AI, UiPath Is Gaining Strength](#)
- [Snowflake Stock Now Attractive After 30% Tumble](#)
- [Arista Networks Betting On Innovation to Outpace Rivals](#)
- [CrowdStrike Stock Skyrocketing ARR, Strategic Alliances Fuel Growth](#)
- [Super Micro Computer Stock: Massive Growth Makes It Undervalued](#)
- [Iron Mountain Stock \(NYSE:IRM\): For Investors Seeking Value and Income](#)
- [ServiceNow Stock: Why the High Valuation Is Worth It](#)
- [Eli Lilly Stock \(NYSE:LLY\): Bullish on Innovation and Pharmaceutical Success](#)
- [Snap Stock \(NYSE:SNAP\): Growth Trajectory Is Mixed after Recent Setbacks](#)

## Quantum Computing

### National Strategies and Funding Initiatives

- [US Government Renews Quantum Initiative Act](#)
- [UK Government Awards \\$19M to Quantum Projects](#)
- [DOE Awards \\$24 Million for Quantum Network Research](#)
- [Germany Launches \\$3.3B Quantum Technology Plan](#)
- [Australian Government Unveils National Quantum Strategy](#)
- [India Launches \\$735M National Quantum Mission](#)
- [Canadian Government Awards \\$51M to Quantum Projects](#)
- [Government of Canada Launches National Quantum Strategy](#)
- [CHIPS Act Helps Fund US Quantum Chipmaking](#)

- [Irish Government, EU to invest €10m in quantum communications network](#)
- [Australia Funds \\$3.6M Initiative to Fuel Quantum Tech Breakthroughs](#)
- [US Department of Energy Announces \\$9.1M in Quantum Funding](#)
- [Australian Government Awards IBM \\$725M Quantum Deal](#)
- [Israel Innovation Authority Funds New Quantum Computing Consortium](#)

#### Defense, Cybersecurity & International Cooperation

- [Biden Administration Designates Chicago, Colorado Quantum Tech Hubs](#)
- [U.S. Senate Passes Quantum Computing Cybersecurity Act](#)
- [US Eyes China Quantum Tech Export Controls](#)
- [Canadian Armed Forces Releases Quantum Strategy](#)
- [President Biden Signs Post-Quantum Cybersecurity Guidelines into Law](#)
- [White House Instructs Agencies to Prepare for Quantum Attacks](#)
- [US National Defense Authorization Act Includes Quantum Pilot Program](#)
- [US, India Launch Joint Quantum Initiative](#)
- [DARPA Launches Five-Year Program to Study Novel Quantum Computers](#)

#### Academic Research Collaborations

- [SoftBank and University of Tokyo Collaborate on Quantum Research](#)
- [IBM, NQCC to Offer Researchers Quantum Computing Access](#)
- [Australia, UK to Collaborate on Quantum Innovation](#)
- [NYU, Qunnect Achieve 10-Mile Quantum Network Test](#)
- [US and India Strengthen Quantum Ties](#)
- [University of Michigan Establishes \\$55M Quantum Research Institute](#)
- [PsiQuantum Opens UK-Based Research Facility](#)
- [AWS, Harvard Form Quantum Alliance](#)
- [IIT Madras joins IBM Quantum Network](#)
- [JP Morgan Chase Joins Quantum Research Center](#)
- [Q-CTRL, USGS Bring Quantum Technology to Geosciences](#)
- [Partnership Aims to Boost Korean Quantum Ecosystem](#)
- [Partnership Offers Researchers Access to Quantum for Drug Discovery](#)
- [QI Solutions Quantum Computing Joins Center for Quantum Technologies](#)
- [Researchers Develop Cameras to Visualise Quantum States](#)
- [German Aerospace Center Launches Quantum Materials Simulation Project](#)
- [Canadian Partnership Targets Quantum Computing Education and Research](#)

#### Industry Research Collaboration



- [PsiQuantum, SLAC Team to Reduce Quantum Cooling Requirements](#)
- [Machine Learning Paves the Way for Quantum Computing Error Correction](#)
- [Accenture, SandboxAQ Collaborate on Quantum-AI Cybersecurity](#)
- [Microsoft, PsiQuantum Progress to Stage 2 of DARPA Quantum Program](#)
- [Fujitsu and Osaka University Make Error Correction Breakthrough](#)
- [Nvidia, Rigetti Team on Quantum Hybrid Climate Modeling](#)
- [Microsoft Facilitates Quantum-Classical Integration](#)
- [Photonic, Microsoft Collaborate on Quantum Computing, Networking](#)

#### Corporate Investments, Partnerships & M&A

- [Zapata Goes Public via Merger with Andretti Acquisition Corp.](#)
- [KPMG joins IBM Quantum Network](#)
- [Bosch and Porsche Lead Quantum Motion Investment Round](#)
- [Tata Consultancy Services Launches AWS Enterprise Quantum Lab](#)
- [Moody's Launches Quantum Group](#)
- [Quantum Businesses Forge Alliance](#)
- [QNu Labs Secures \\$6.5M Funding](#)
- [SandboxAQ Completes \\$500M Funding Round](#)
- [Oxford Ionics raises \\$36M to scale trapped-ion quantum technology](#)
- [ColdQuanta announces \\$110M Series B Funding](#)
- [Classiq, OQC Join Forces to Simplify Quantum Development](#)
- [Beyond Limits and IQM Quantum Computers Partner on Quantum with AI](#)
- [Rigetti and ADIA Lab Collaborate on Quantum Financial Solution](#)
- [Dell Launches Toolset to Better Integrate Quantum Computers](#)
- [Microsoft Releases Azure Quantum Resource Estimator](#)
- [JP Morgan Trials Quantum for Trading, Risk Management](#)
- [Troubled Rigetti Lays Off 28% of Staff, Hires New CFO and CTO](#)

#### Quantum Hardware, Systems & Infrastructure

- [IBM Breaks Ground on First University-Based Quantum System One](#)
- [Pasqal to Open a Quantum Computer Factory in Canada](#)
- [IonQ to Provide Two Generations of Quantum Systems to QuantumBasel](#)
- [Japan to Make its First Quantum Computer Available Online](#)
- [Italy Gets its First Quantum Computer](#)
- [Czechia to Host its First Quantum Computer](#)
- [Canada Gets Its First IBM Quantum System One Computer](#)
- [Quebec Plans IBM Quantum Supercomputer](#)

- [Taiwan Targets Domestic Quantum Computer by 2027](#)
- [IQM Unveils Plans for 150-Qubit Quantum Computer](#)
- [Rigetti sells first QPU, announces roadmap to 336 qubits](#)
- [Inflection to Manufacture the UK's First Quantum Optical Atomic Clock](#)
- [Supercomputing Sites to Get Europe-Made Quantum Computers](#)
- [University Set to be First to Host IBM Quantum System One](#)
- [Canada Grants Xanadu \\$30M to Advance Quantum Computer Development](#)
- [First Chinese Quantum Computer Sale Reported](#)
- [Europe's Fastest Supercomputer Adds Quantum Power](#)
- [World's First Portable Quantum Computer Enters Retail Market](#)

#### Quantum Tools, Capabilities, & Platform Innovation

- [Quobly Raises \\$21M to Advance Silicon Spin Technology](#)
- [IBM Introduces Quantum-Safe Technology, Roadmap](#)
- [IBM Runs Largest-Ever Quantum Program](#)
- [Quantinuum Claims Fault-Tolerant Quantum Computing Advances](#)
- [PsiQuantum, Mitsubishi Tap Quantum for Sustainable Technologies](#)
- [D-Wave Launches Quantum Toolset on AWS Marketplace](#)
- [Robotic Arm Developed to Support Quantum Research](#)
- [T-Systems to provide access to IBM quantum computing resources](#)
- [German Aerospace Center to Co-Develop Quantum Processors](#)
- [Photon Breakthrough Could Deliver Quantum Comms, Sensors](#)

#### Quantum Sector-Specific Applications in Industry

- [Quantum Slated to Better Maneuver Missiles](#)
- [Oil and Gas Industry Explores Use Cases for Quantum](#)
- [Quantum Harnessed for Pricing Complex Financial Derivatives](#)
- [Quantum Research Targets More Efficient Solar Cells](#)
- [Nvidia, Rolls-Royce, Classiq Tap Quantum for Jet Engine Design](#)
- [Ford Taps Quantum for Future EV Battery Development](#)
- [Quantum Computing Optimization Used to Develop Cooling Window Coating](#)
- [Quantum Tapped for HVAC Optimization](#)
- [Fujitsu Quantum Research Promises Cheaper Clean Hydrogen](#)
- [Zapata Partners on Research Quantum Computing for Pharma](#)
- [UBS Launches Quantum Sustainability Initiative](#)
- [German Aerospace Center Launches Quantum Climate Modeling Initiative](#)
- [IonQ to Offer Quantum Services in Europe via Management Consultancy](#)

- [D-Wave, Davidson Technologies Unveil Defense Initiatives](#)
- [Quantum Computer Slows Chemical Process 100 Billion Times](#)
- [Indian Railways Aims to Modernize with Quantum and AI](#)
- [Study Finds Quantum Computing May Radically Alter Life Sciences](#)
- [Wellcome Leap Announces \\$40M Quantum Health Care Initiative](#)
- [D-Wave Explores Quantum for Advertising](#)

## Security & Cryptography

- [Google Introduces Chrome Quantum Attack Protection](#)
- [SoftBank and SandboxAQ Successfully Apply Hybrid Quantum Encryption](#)
- [Fujitsu tests RSA cryptography for quantum security](#)
- [France Sends First Post-Quantum Encrypted Diplomatic Message](#)
- [US Air Force Awards SandboxAQ Quantum Navigation Research Contract](#)
- [US Air Force Engages SandboxAQ for Post-Quantum Security Audit](#)
- [Deloitte: Companies Face Harvest Now, Decrypt Later Quantum Threat](#)
- [Linux Foundation Launches Post-Quantum Cryptography Alliance](#)
- [Chinese Researchers Claim Quantum Encryption Hack](#)
- [Quantinuum Brings Quantum Encryption Keys to Connected Devices](#)
- [EU Consortium Targets Quantum-Secured Communication](#)

## Education & Workforce Development

- [Virtual Reality Quantum Education Project Wins \\$1M Grant](#)
- [Quantum Subscription Platform Aims to Accelerate Drug Discovery](#)
- [Quantum Computing Companies – The Ultimate Directory](#)
- [13 Companies Offering Quantum-as-a-Service](#)
- [7 Companies Using Quantum Computing](#)
- [IBM Offers Researchers Quantum Credits](#)
- [Quantum Computing as a Service News Roundup](#)
- [Fujitsu Announces Quantum Simulator Challenge Winners](#)

## Global Ecosystem & Market Growth

- [France Debuts “House of Quantum”](#)
- [Deutsche Telekom Opens Quantum Lab in Berlin](#)
- [European Quantum Ecosystem Gets \\$66M Cash Injection](#)
- [Organizations Collaborate to Boost South Korean Quantum Ecosystem](#)
- [UKQuantum Consortium Launches to Accelerate Innovation](#)

- [US and France Establish Bilateral Partnership to Advance Quantum Goals](#)
- [India to Build its First Dedicated Quantum Computing Data Center](#)
- [Which Countries Have the Most Quantum Computing Companies](#)
- [Top 6 Quantum Computing Companies as Ranked by Google](#)
- [China Introduces New Cloud Platform for Quantum Computing](#)
- [QCI Commercializes Quantum Products](#)
- [Thales Collaborates with EuroQCI on Quantum Information Network](#)
- [Japan Invests \\$30M in Quantum Cloud Computing for Industry](#)
- [Q-CTRL Combines AI and Quantum Technology in New Software Suite](#)
- [US Air Force Advances Quantum Research](#)
- [German Aerospace Center Taps Quantum for Aeronautics and Space](#)
- [Nord Quantique Unveils New Technique for Scalable Qubit Error Correction](#)
- [US Tops List of China's Origin Wukong Quantum Computer Users](#)
- [10 Enterprises Experimenting with Quantum Technology in 2023](#)
- [4 Countries That Began Funding Quantum Initiatives in 2022](#)
- [10 Quantum Computing Groups Known for Collaborating With Startups](#)