
Zetaris
Industry Applications

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Zetaris Industry Applications are pre-built applications that enable you to solve the specific issues you face.



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Integrate into the Zetaris Unified Data Preparation Studio to massively accelerate the time to value as you leverage:

- ✓ Industry specific unified semantic models
- ✓ Ability to virtually create data pipelines in real-time
- ✓ Out-of the box data quality management at the source data set

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Zetaris allows you to create a re-useable data asset, so your data is made analytics ready for other use cases

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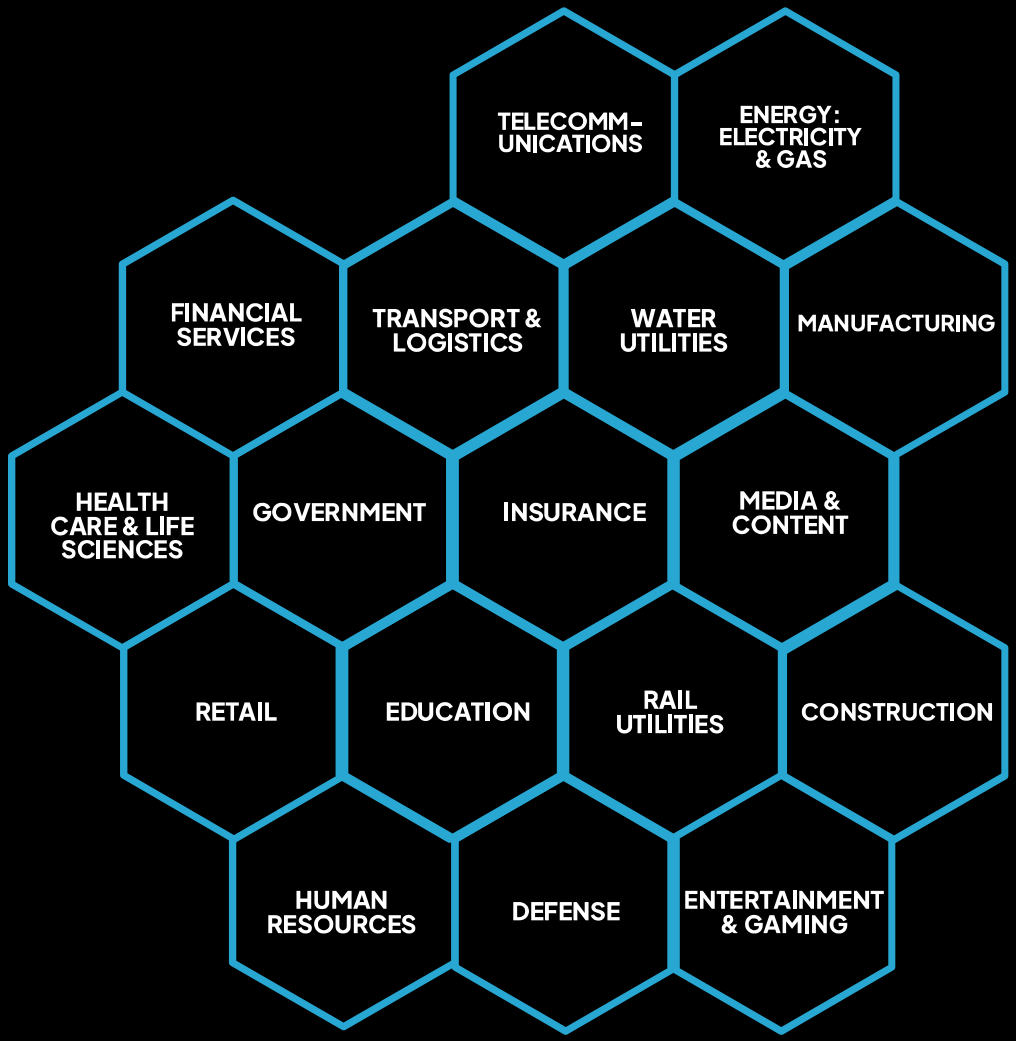
Zetaris is integrated into the
best-in-class analytics products:

Power BI
data iku
tableau
H_2O.ai



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Zetaris delivers innovative applications across a multitude of complex industries:

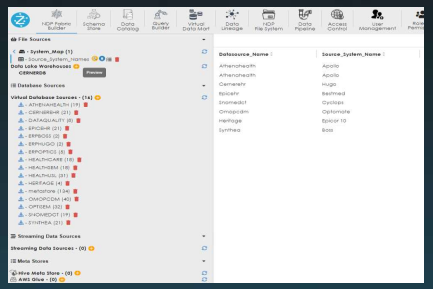


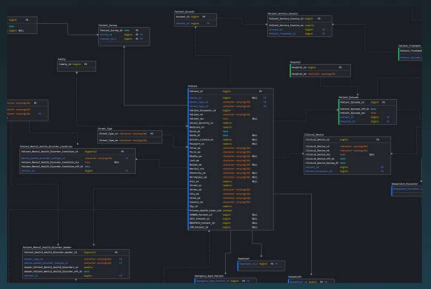
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Zetaris industry applications comprise of extensive industry-specific assets

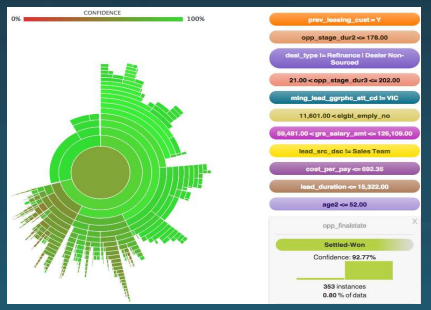
INDUSTRY APPLICATION

- Pre-built connectors to standard industry systems
- Industry Specific Data model
- Data Quality exception handling at data source
- Pre-built application using world class data science









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Zetaris helps you deploy pre-built industry-specific applications:

HEALTH CARE	FINANCIAL SERVICES	TELCO	RETAIL	MANUFACTURING
Digital Care – COPD, Diabetes	Credit Scoring	Predictive Maintenance	Demand Forecasting	IoT Performance Optimization
Cardiac Pathways	Loan Default Analysis / Prediction	Industry Data Exchange	Next Best Offer	Predictive Maintenance
Outpatient Specialist Referral Triage	Anti-money Laundering	Customer Churn Prediction	Customer Lifetime Value	Supply Chain Risk
Early Disease Detection	Credit Card Fraud	Truck Roll reduction	Supply Chain Optimization	Warranty Analysis

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CONSTRUCTION

Drive construction efficiency with real-time project insights, optimized resource allocation, and proactive risk management

Building Information Modelling (BIM)

Analytics applied to BIM platforms, which enable the digital representation of construction projects. By integrating data from various sources, such as architectural designs, structural models, & cost estimates, construction companies can visualize project elements, optimize designs, simulate construction processes, and improve collaboration among project stakeholders

Energy Efficiency & Sustainability

Improve energy efficiency and sustainability in construction projects. By analyzing data on energy consumption, building performance, and environmental factors, construction companies can optimize building designs, select sustainable materials, and implement energy-saving strategies. This supports green building practices and reduces the environmental impact of construction projects

Equipment & Asset Management

Enable proactive equipment and asset management in construction projects. By analyzing sensor data, maintenance records, and usage patterns, construction companies can predict equipment failures, schedule maintenance proactively, and optimize equipment utilization. This helps reduce downtime, improve equipment performance, and minimize operational costs

Quality Control and Defect Detection

Assist quality control and defect detection in construction projects. By analyzing data from sensors, inspections, and quality assurance records, construction companies can identify patterns, detect defects, and take corrective actions. This helps improve construction quality, reduce rework, and enhance customer satisfaction

Risk Management

Identify and mitigate risks in construction projects. By analyzing data from sensors, weather forecasts, historical accident records, and site conditions, construction companies can assess potential risks, implement preventive measures, and improve safety protocols. This helps reduce accidents, mitigate project delays, and minimize costs associated with risks

Site Monitoring & Safety

Enable real-time site monitoring and safety management. By analyzing data from sensors, drones, and video surveillance systems, construction companies can monitor site conditions, detect safety hazards, and ensure compliance with safety protocols. This helps improve construction site safety, minimize accidents, and maintain regulatory compliance

Supply Chain Optimization

Optimize the construction supply chain by analyzing data on materials availability, inventory levels, transportation routes, and vendor performance. By leveraging this data, construction companies can streamline procurement processes, minimize delays, and improve cost efficiency in the supply chain

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DEFENCE

Strengthen national security with advanced threat intelligence, predictive analytics, and mission-critical insights

IoT Performance Optimization

Collect and analyze real-time data from IoT sensors embedded in military assets for defense organizations to enhance operational efficiency, monitor equipment health, and proactively identify maintenance needs, thereby improving overall readiness and effectiveness

Mental Health

Monitor and analyze data related to the mental health and well-being of military personnel, enabling early identification of mental health issues, personalized interventions, and support systems to ensure the overall well-being and readiness of service members

Mission Planning Optimization

Optimize mission planning, resource allocation, and logistics. This includes analyzing historical data, weather conditions, terrain, and other factors to improve decision-making, reduce risks, and ensure successful mission outcomes

Predictive Maintenance

Enable defense organizations to implement predictive maintenance strategies, monitor asset health, optimize maintenance schedules, and reduce equipment downtime, thereby enhancing operational readiness and cost efficiency

Real time cyber threat detection

Given the increasing digitalization of defense systems, cybersecurity becomes crucial. Help defense organizations utilize analytics to detect and mitigate cyber threats, monitor network traffic, identify anomalies, and protect critical infrastructure and sensitive data

Secure Data Share

Ensuring secure and encrypted data sharing among defense agencies, military branches, and allied forces is crucial for effective collaboration, intelligence sharing, and mission planning, allowing for timely decision-making and improved situational awareness

Supply Chain Risk

Analyzing big data across the defense supply chain enables the identification and mitigation of risks, ensuring the availability of critical resources, optimizing logistics, and enhancing resilience against disruptions to maintain operational readiness

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EDUCATION

Revolutionize education with personalized learning, student performance analytics, and data-driven decision-making

Adaptive Assessments

By analyzing student performance data in real-time, adaptive assessments provide immediate feedback and generate more accurate and detailed insights into student knowledge and skills

Early Warning

Help identify early warning signs of students at risk of academic failure or dropout. By analyzing attendance records, grades, behavior data, and other indicators, educators can intervene proactively to provide additional support, counseling, or resources to students who may be struggling

Mental Health

Prioritize student well-being and mental health with our data-driven approach, providing comprehensive support and resources to foster a positive learning environment and empower students to thrive academically and emotionally

Outcome Evaluation

Learning analytics can help identify areas where students may be struggling, track their learning trajectories, and provide timely interventions or personalized support

Personalized Learning Analytics

Enable the creation of personalized learning paths, adaptive content, and tailored recommendations for individual students. Personalized learning improves student outcomes, enhances engagement, and supports differentiated instruction

Predictive Analytics for Student Success

Educators can leverage historical data on student performance, demographics, and engagement to identify students at risk of falling behind, implement targeted interventions, and improve student retention and graduation rates

Resource Allocation and Planning

By analyzing enrollment data, demographic trends, and facility utilization, institutions can optimize class schedules, allocate resources effectively, and plan for future needs

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ENERGY

Power your energy operations with data-driven insights, renewable energy optimization, and smart grid management

Asset Analytics

Optimize asset performance, maintenance schedules, and operational efficiency, resulting in improved asset reliability, cost savings, and enhanced energy production and delivery

Demand Forecast

Analyze historical sales data, market trends, and customer demand patterns to forecast demand accurately, optimize inventory levels, minimize stockouts, and reduce excess inventory costs

Emissions Forecasting

Utilize analytics to predict and estimate greenhouse gas emissions, enabling energy companies to proactively manage and reduce their environmental footprint while complying with regulations and meeting sustainability goals

Energy Consumption

Analyze data from smart meters, IoT devices, and energy management systems to provide insights into energy consumption patterns for energy companies to identify energy-saving opportunities, optimize energy usage, and offer energy efficiency recommendations to customers

ESG Reporting

Real-time tracking and reporting on environmental, social, and governance practices to demonstrate the industry's commitment to sustainability, responsible resource management, and ethical business practices

IoT Performance Optimization

Analyze sensor data, production line data, and historical performance data to optimize manufacturing processes, identify bottlenecks, reduce cycle times, and improve overall operational efficiency

Predictive Maintenance

Analyze sensor data, equipment logs, and maintenance records to predict equipment failures, schedule proactive maintenance, optimize maintenance resources, and minimize unplanned downtime

Supply Chain Risk

Analyze data from suppliers, production systems, logistics, and inventory to optimize supply chain operations, reduce lead times, optimize inventory levels, and improve overall supply chain efficiency

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ENTERTAINMENT & GAMING

Elevate entertainment experiences with personalized recommendations, immersive content, and targeted marketing

Audience Analytics

Analyze user behavior, preferences, and engagement patterns to gain insights into audience demographics, interests, and consumption habits

Content Recommendations

Power content recommendation engines that suggest movies, TV shows, music, or games based on user preferences, viewing history, and similar user profiles

Fraud Detection and Security

Analyze user behavior, transactions, and account activity so companies can detect fraudulent activities, protect user accounts, and ensure a secure gaming environment

Problem Gambling

Identify and support individuals with gambling issues, promoting responsible gambling practices and enhancing player well-being within the entertainment ecosystem

Revenue Optimization

Optimize revenue generation by analyzing customer data, pricing models, and consumption patterns to identify optimal pricing strategies, target specific customer segments with tailored offerings, and maximize revenue through in-game purchases, subscriptions, or advertising

Social Media Analytics

Analyze social media platforms, track trends, & monitor audience sentiment toward entertainment content & games. This data can help understand audience perception, gauge the impact of marketing campaigns, & inform content promotion & reputation management strategies

User Engagement and Retention

Analyze user behavior, playing patterns, social interactions, and feedback data to identify features, gameplay mechanics, or content updates that enhance user engagement and loyalty. This can inform game design decisions, content updates, and marketing strategies

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FINANCIAL SERVICES

Transform your financial strategies with data-driven insights, risk management, and personalized customer experiences

Anti-money Laundering

Analyze vast amounts of financial data, customer transactions, and global financial trends to identify patterns and detect potential money laundering activities, enabling financial institutions to comply with AML regulations and prevent illicit financial transactions

Credit Card Fraud

Empower investigative teams in monitoring customer transactions, successfully detecting frauds, and efficiently handling alerts in real-time. Enable financial institutions to mitigate risks and prevent financial fraud

Credit Risk Analysis

Automatically analyze customer data, credit history, and alternative data sources to assess creditworthiness, automate credit scoring processes, and make accurate loan underwriting decisions, streamlining the lending process and reducing credit risks

Credit Scoring

Analyze vast amounts of customer data, credit history, and alternative data sources to assess creditworthiness, automate credit scoring processes, and make accurate loan underwriting decisions, streamlining the lending process and reducing credit risks

Customer Segmentation

Deepen customer insight and success with machine learning segmentation by leveraging the Zetaris Unified Semantic Layer. Help understand customer needs, and deliver personalized financial products, services, and recommendations

ESG Reporting

Enable comprehensive and detailed analysis of large-scale ESG datasets, providing valuable insights into sustainability practices, social impact, and corporate governance of companies and investment portfolios

Loan Consolidation

Finance Industry Solution for targeted debt consolidation. This solution identifies existing customers that have loan relationships with other banks with the aim of winning their business and helping customers by consolidating their loans

Loan Default Analysis/ Prediction

Utilize advanced data analytics to predict the likelihood of loan defaults based on historical data, borrower characteristics, and economic factors. By accurately predicting loan defaults, financial institutions can effectively manage credit risk, optimize loan underwriting processes, and make informed decisions to mitigate potential losses

Next Best Offer

Predict the probability of subscription of banking customers and calculate the expected revenue gain and impact. Identify the most relevant and personalized product or service recommendations for customers, increasing cross-selling and upselling opportunities

Risk & Regulatory Reporting

Assist financial institutions in meeting regulatory requirements by analyzing and monitoring transactions, customer data, and communications to identify potential compliance breaches, monitor suspicious activities, and ensure adherence to regulatory guidelines

Small Business Identification/ Targeting

Identification of high-value small businesses with significant growth potential helps tailor targeted marketing strategies to win business, optimize resource allocation and drive growth in the small business segment

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GOVERNMENT

Empower government decision-making with data-driven insights, citizen engagement, and predictive analytics

Emergency Response

Utilize real-time data analytics to enhance emergency response capabilities, coordinate disaster management efforts, and mitigate the impact of natural or man-made disasters

Fraud Detection and Prevention

Uncover and prevent fraudulent activities with advanced data analytics, ensuring transparency and accountability in government operations

Open Data Initiatives

Promote transparency and citizen engagement by making government data accessible to the public, enabling innovation and data-driven decision-making

Predictive Policing

Utilize real-time data analytics to enhance emergency response capabilities, coordinate disaster management efforts, and mitigate the impact of natural or man-made disasters

Public Health Surveillance

Improve healthcare delivery and public health outcomes by leveraging data analytics to identify patterns, predict disease outbreaks, and optimize resource allocation

Revenue Optimization

Enhance tax compliance efforts through data analytics, detecting anomalies, identifying potential fraud, and optimizing revenue collection for government agencies

Sentiment Analysis

Gain real-time insights into citizen sentiments and opinions to make data-driven decisions that address public concerns and improve government services

Social Service Optimization

Improve the effectiveness and efficiency of social welfare programs by leveraging data analytics to identify eligible beneficiaries, tailor services, and measure program impact

Tax Compliance

Enhance tax compliance efforts through data analytics, detecting anomalies, identifying potential fraud, and optimizing revenue collection for government agencies

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HEALTH CARE

Optimize patient outcomes with precision medicine, improved patient care and efficient admin processes

Asset Analytics

Track and monitor the location, status, and utilization of medical equipment and assets in real-time, ensuring efficient asset allocation, reducing equipment downtime, and improving overall operational efficiency within healthcare facilities

Cardiac Pathways

Use AI to triage patients on presentation to Emergency Department with chest pain and more effectively determine treatment pathways within the hospital and as an outpatient

Clinical Decision Support System

Enhance clinical decision-making by integrating patient data, research findings, and best practices. By analyzing diverse data sources, including medical records, lab results & treatment guidelines, healthcare providers can access real-time insights, receive recommendations & improve diagnosis & treatment outcomes

Digital Care – COPD, Diabetes

Transform healthcare with our digital care solutions for chronic diseases, cutting costs and improving outcomes. For instance, our innovative Chronic Obstructive Pulmonary Disease (COPD) solution reduces hospitalizations by 58%, ER visits by 74%, outpatient visits by 57%, and GP visits by 81%

Early Disease Detection

Unified connection to disparate EHR systems for reporting and early detection of infectious diseases. This can aid in early detection of outbreaks, facilitate timely interventions, and support public health efforts

Healthcare Operational Data Quality

Real-time operational data quality driven by the Zetaris Data Quality and Exception Management Framework. Ensure accurate and reliable data, enabling healthcare providers to make informed decisions, enhance patient safety, and improve overall operational efficiency

Healthcare Fraud Detection & Compliance

Assist in detecting healthcare fraud and ensuring compliance with regulations. By analyzing large volumes of claims data, billing records, and provider information, healthcare organizations can identify irregular patterns, detect fraudulent activities, and prevent financial losses

Mental Health Monitoring

Aggregate and generate summary statistics on key mental health issues including the prevalence of mental disorders and the use of services. Healthcare providers can monitor mental health trends, identify at-risk populations, and plan targeted interventions

Operational Efficiency & Resource Optimization

Optimize healthcare operations by analyzing data related to resource utilization, patient flow, and operational efficiency. By leveraging data from electronic records, scheduling systems, & operational logs, healthcare organizations can identify bottlenecks, streamline processes, & allocate resources effectively to enhance operational efficiency

Outpatient Specialist Referral Triage

Referrals to clinical specialists have incorrect initial triage outcomes of up to 50%, significantly impacting patient outcomes. Use AI modelling to triage referrals, improving patient outcomes and reducing demand on overburdened specialist services.

Patient Monitoring and Remote Care

Support public health initiatives by analyzing population health data, environmental factors, and social determinants of health. By integrating data from sources such as demographics, environmental sensors, and social media, public health agencies can monitor population health trends, identify at-risk populations, & plan targeted interventions

Patient Satisfaction

Aggregated insights into Patient Satisfaction using patient survey data. Identify bottlenecks, streamline processes, and allocate resources effectively to enhance operational efficiency

Precision Medicine & Genomic Research

By analyzing large-scale genomic data, clinical data, and outcomes data, researchers can identify genetic markers, uncover disease mechanisms, and develop targeted therapies. This helps personalize treatments, improve drug efficacy, and advance genomic research

Predictive Analytics for Patient Care

Enable predictive modeling to identify patients at high risk of developing certain conditions or experiencing adverse events. By analyzing patient data, including demographics, medical history, and genetic information, healthcare providers can intervene proactively, personalize treatment plans, and improve patient outcomes

Public Health Analytics

Support public health initiatives by analyzing population health data, environmental factors, and social determinants of health. By integrating data from sources such as demographics, environmental sensors, and social media, public health agencies can monitor population health trends, identify at-risk populations, & plan targeted interventions

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HUMAN RESOURCES

Empower HR strategies with data-driven talent management, employee engagement, and predictive workforce analytics

Employee Engagement & Retention

Collect and analyze data from employee surveys, performance evaluations, feedback platforms, and collaboration tools for HR teams to identify factors that impact engagement and develop strategies to enhance it. This helps in improving employee satisfaction, productivity, and retention

Employee Well-being & Workforce Analytics

Analyze data from employee wellness programs, surveys, and health records for HR teams to identify patterns and trends, implement targeted interventions, and promote employee well-being

HR Analytics & Reporting

Integrate data from multiple HR systems, such as payroll, attendance, and performance management for HR teams to gain insights into workforce trends, identify areas for improvement, and make data-driven decisions to support strategic HR initiatives

Learning & Development

Analyze employee performance data, training records, and skill assessments for HR teams to identify areas for skill development, recommend relevant training programs, and measure the effectiveness of learning initiatives

Performance Management

Integrate data from performance reviews, key performance indicators (KPIs), and goal tracking systems, for HR teams to identify high-performing employees, track performance trends, and provide data-driven feedback and coaching

Talent Acquisition & Recruitment

Leverage data from resumes, social media profiles, job portals, and internal databases for HR teams to gain insights into candidate qualifications, skills, and cultural fit. This helps streamline the recruitment process, improve candidate selection, and enhance the quality of hires

Workforce Planning & Succession Management

Analyze employee data, including demographics, skills, and career trajectories for HR teams to identify future talent needs, develop succession plans, and ensure a smooth transition of key roles within the organization

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INSURANCE

Revolutionize insurance with real-time risk assessment, personalized coverage, and fraud detection

Actuarial Modeling & Pricing

Analyze historical data, market trends, and customer behavior for insurers to develop more accurate pricing models, assess policy risks, and make informed decisions about product offerings

Claims Management & Processing

Streamline the claims management process by automating data capture, analysis, and processing. By leveraging technologies like natural language processing and machine learning, insurers can process claims faster, identify fraudulent claims, and provide quicker settlements. This improves operational efficiency, customer experience, and reduces claims processing costs

Claims Modelling

Help improve risk assessment, pricing accuracy, and profitability by leverage ML for claims modeling

Customer Segmentation & Personalization

Enables insurers to segment customers based on their profiles, behaviors, and preferences. By analyzing data from various sources, insurers can offer personalized products, tailored recommendations, and targeted marketing campaigns. This enhances customer satisfaction, improves cross-selling and upselling opportunities, and increases customer loyalty

Fraud Detection & Prevention

Help identify patterns and anomalies in data to detect and prevent insurance fraud. By analyzing historical claims data, policyholder behavior, and external data sources, insurers can develop advanced fraud detection models. This helps in minimizing losses, reducing fraudulent claims, and protecting the interests of genuine policyholders

Predictive Analytics for Loss Prevention

Analyze historical data, weather patterns, social trends, and other relevant factors so that insurers can leverage predictive analytics to identify potential risks and take proactive measures for loss prevention. This includes offering risk mitigation advice, providing safety recommendations, and implementing preventive measures to reduce the occurrence of losses and claims

Risk Assessment and Underwriting

Incorporate data from various sources, such as customer profiles, claims history, credit scores, social media, and external databases for insurers to make more informed decisions during underwriting. This helps in improving risk assessment, pricing accuracy, and profitability

Usage-Based Insurance

Insurers can collect and analyze data from connected devices and sensors, such as telematics devices in vehicles. This enables the implementation of usage-based insurance models, where premiums are based on actual driving behavior and risk. It promotes safer driving habits, allows for personalized pricing, and provides insurers with more accurate risk assessments

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MANUFACTURING

Revolutionize your manufacturing processes with predictive maintenance, optimized production, and streamlined supply chain operations

Demand Forecasting

Analyze historical sales data, market trends, and customer demand patterns to forecast demand accurately, optimize inventory levels, minimize stockouts, and reduce excess inventory costs

Inventory Optimization

Analyze data from suppliers, production systems, logistics, and inventory to optimize supply chain operations, reduce lead times, optimize inventory levels, and improve overall supply chain efficiency

IoT Performance Optimization

Reduce inefficiencies and equipment downtime through IoT sensor driven batch process manufacturing with ML outcome prediction and advanced analysis

Predictive Maintenance

Identify and prioritize devices that are most likely to fail and in need of preventative maintenance. Analyze sensor data, equipment logs, and maintenance records to predict equipment failures, schedule proactive maintenance, optimize maintenance resources, and minimize unplanned downtime

Process Optimization

Analyze sensor data, production line data, and historical performance data to optimize manufacturing processes, identify bottlenecks, reduce cycle times, and improve overall operational efficiency

Production Quality Control

Improve the quality of your production and adjust your manufacturing processes in near real-time. Analyze production data, sensor data, and quality inspection records to identify patterns and anomalies, detect defects in real-time, and improve overall product quality

Supplier Performance Analysis

Analyze data from suppliers, including delivery times, quality metrics, and compliance data, to assess supplier performance, identify areas for improvement, and optimize supplier relationships

Supply Chain Risk

Analyze data from suppliers, production systems, logistics, and inventory to optimize supply chain operations, reduce lead times, optimize inventory levels, and improve overall supply chain efficiency

Warranty Analysis

Analyze warranty claims, service records, and customer feedback to identify product issues, improve service quality, optimize warranty programs, and enhance customer satisfaction

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MEDIA AND CONTENT

Drive media innovation with audience insights, content personalization, and targeted advertising strategies

Ad Placement and Monetization

Optimize ad placement by analyzing user behavior, preferences, and contextual factors. Media companies can leverage data insights to deliver targeted advertisements to specific audience segments, thereby maximizing ad revenues and improving ROI for advertisers

Audience Insights & Targeting

Media companies can analyze their audience to better segment i and target specific groups with tailored content and advertising campaigns. This helps in optimizing advertising revenues, increasing subscriptions, and improving overall content strategy

Content Personalization

Analyze user data, including browsing behavior, preferences, demographics, and social media interactions, to personalize content recommendations and enhance user engagement and satisfaction

Predictive Analytics for Content Performance

Analyze historical data on content performance, user engagement, and viewing patterns to forecast the potential success of new content

Real-time Pricing Analytics

Enable dynamic pricing strategies based on real-time data, optimizing revenue generation and maximizing customer engagement by offering personalized and timely pricing options

Social Media Analytics

Analyze user data, including browsing behavior, preferences, demographics, and social media interactions, to personalize content recommendations and enhance user engagement and satisfaction

Viewer Engagement & Retention

Analyzing viewer data to gain insights into viewer behavior, engagement levels, and churn patterns. This information can be used to optimize content offerings, develop loyalty programs, and design personalized retention strategies to enhance viewer satisfaction and loyalty

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Industry Applications

RAIL UTILITIES

Optimize rail operations with data-driven insights, predictive maintenance, and efficient resource allocation

Customer Experience Enhancement

Analyzing data from ticketing systems, customer feedback, and social media, rail operators can personalize services, improve customer communications, and optimize the passenger experience. This includes providing real-time travel information, personalized recommendations, and targeted marketing campaigns

Demand Forecasting & Capacity Planning

Analyze historical passenger data, ticketing information, and external factors such as events, holidays, and weather conditions to forecast demand for rail services, optimize capacity planning, adjust schedules, and allocate resources effectively to meet passenger demand, reduce overcrowding, and improve the overall passenger experience

Energy Management & Efficiency

Collect and analyze data on train speed, acceleration, braking, and energy usage for rail operators to identify opportunities for energy savings, optimize train operations, and reduce energy costs. This contributes to environmental sustainability and operational efficiency

Infrastructure Planning & Optimization

Analyze data on track conditions, maintenance records, and train operations for rail operators to identify areas that require infrastructure upgrades, optimize maintenance schedules, and improve the overall performance and safety of the rail network

Predictive Maintenance

Collect and analyze sensor data, maintenance logs, and historical performance data for rail operators to predict maintenance needs, identify potential failures, and schedule proactive maintenance activities. This helps reduce downtime, improve asset availability, and optimize maintenance costs

Real-time Fleet Management

Integrate data from GPS systems, sensors, and operational systems for rail operators to track train locations, optimize schedules, manage disruptions, and make real-time decisions to improve service reliability and operational efficiency

Safety & Security Analytics

Enhance safety and security measures in rail operations. By analyzing data from video surveillance systems, access control systems, and passenger flow sensors, rail operators can identify potential security threats, monitor crowd densities, and implement measures to ensure passenger safety and security

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RETAIL

Elevate your retail business with personalized customer experiences, dynamic pricing, and optimized inventory management

Customer Lifetime Value

Predict the future value of your customers and organize them in well-structured groups. Optimize marketing spend and increase revenues by adjusting your customer sales strategies

Customer Loyalty

Help retailers segment their customer base and understand their preferences, behaviors, and buying patterns. This allows retailers to deliver personalized marketing campaigns, recommendations, and offers to enhance customer engagement and drive sales

Customer Segmentation

Segment your consumers based on preferences, behaviors, and purchasing patterns. This allows retailers to deliver personalized marketing campaigns, recommendations, and offers to enhance customer engagement and drive sales

Demand Forecasting

Analyze historical sales data, market trends, social media sentiment, and external factors to forecast demand accurately. Retailers can optimize inventory levels, reduce stockouts, minimize overstocking, and improve supply chain efficiency

Market Basket Analysis

Enable retailers to uncover patterns among customer purchase behaviors, allowing them to understand which products are frequently purchased together, optimize product placement, implement effective cross-selling and upselling strategies, enhance personalized recommendations, and ultimately increase sales and customer satisfaction

Next Best Offer

Power recommendation engines by analyzing customer behavior, purchase history, and product attributes. Retailers can provide personalized product recommendations, cross-selling, and upselling opportunities to improve customer satisfaction and drive sales

Store Layout & Customer Experience

Analyze store layout, foot traffic patterns, and customer behavior within physical stores. Retailers can optimize store layouts, product placements, and merchandising strategies to enhance the overall customer experience and increase sales

Supply Chain Optimization

Optimize the supply chain by analyzing data from suppliers, transportation systems, and distribution centers. Retailers can improve logistics, reduce delivery times, optimize routes, and enhance overall supply chain efficiency

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TELCO

Transform your telecommunications business with advanced network optimization, personalized offerings, and proactive customer service

Customer Churn Prediction

Analyze customer data, including usage patterns, billing history, and customer interactions, to predict customer churn. Help implement proactive measures, such as targeted offers, personalized retention campaigns, and improved customer service, to reduce churn and retain valuable customers

Customer Propensity Modelling

Analyze customer behavior, historical usage patterns, and demographic data to identify and predict customer propensity for specific actions such as churn, upsell, or cross-sell. By understanding customer preferences and needs, telcos can personalize their offerings, develop targeted marketing campaigns, and improve customer retention and revenue generation

Industry Data Exchange

Share and exchange data with other industries to enable collaboration, insights, and innovation. By participating in industry data exchanges, Telcos can gain access to valuable data from various sectors, allowing them to uncover new business opportunities, enhance service offerings, and drive strategic decision-making based on comprehensive and diverse datasets

IoT Performance Optimization

Leverage big data analytics to analyze data generated by Internet of Things (IoT) devices. This can enable telcos to offer IoT connectivity services, optimize IoT network performance, and derive insights from IoT data for various industries such as healthcare, smart cities, or industrial automation

Mobile Number Portability

Seamlessly switch telco providers while keeping your number intact with Mobile Number Portability, ensuring hassle-free transitions and maintaining impeccable data integrity for uninterrupted communication

Predictive Maintenance

Analyze sensor data, production line data, and historical performance data to optimize manufacturing processes, identify bottlenecks, reduce cycle times, and improve overall operational efficiency

Revenue Assurance

Automatically analyze billing data, payment records, and usage patterns to identify revenue leakage and billing errors. Telcos can optimize revenue assurance processes, detect and resolve discrepancies, and ensure accurate billing and revenue management

Risk & Regulatory Reporting

Assess various risk factors, including security risk, market risk, and operational risk, by analyzing historical data, market trends, and macroeconomic indicators, helping telecommunications companies identify potential risks, optimize risk models, and make data-driven decisions to manage and mitigate risks effectively

Sensitive Data Scanning

Automatically classify and categorize sensitive data such as customer information, financial data, & personal identifiable information (PII) to ensure compliance with data protection regulations, mitigate data breaches, & safeguard sensitive data throughout the telco organization. It helps telcos proactively identify and protect sensitive data

Service Quality Improvement

Analyze network data, customer feedback, and social media sentiment to identify service quality issues. Telcos can use these insights to address network or service problems, optimize service delivery, and enhance customer satisfaction

Truck-roll reduction

Minimize the number of physical dispatches by remotely diagnosing & troubleshooting network issues, and ensuring the necessary equipment, parts, & personnel are available to address the problem. By reducing truck rolls, Telcos can significantly decrease operational costs, improve efficiency & enhance customer satisfaction by resolving issues more quickly and with fewer disruptions to service

Workforce Management

Optimize and manage the workforce to ensure efficient resource allocation, scheduling, & productivity. By implementing effective workforce management strategies, Telcos can improve operational efficiency, reduce costs, enhance employee productivity, & provide better customer service by ensuring the right personnel with the right skills are available at the right time

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TRANSPORT & LOGISTICS

Transform transportation networks with optimized logistics, predictive maintenance, and enhanced passenger experiences

Customer Experience Enhancement

Gain insights into customer preferences, behavior, and satisfaction levels. Analyzing customer data can help in personalizing services, improving last-mile delivery, optimizing transportation options, and enhancing overall customer experience

Demand Forecasting

Help forecast demand for products or services by analyzing historical data, market trends, customer behavior, and other factors. Accurate demand forecasting allows companies to optimize inventory management, plan resources effectively, and reduce costs associated with overstocking or understocking

Emissions Monitoring

Monitor and manage emissions, track fuel consumption, and assess the environmental impact of their operations. This data-driven approach helps in identifying opportunities for reducing carbon footprints, optimizing fuel efficiency, and promoting sustainable practices

Real-time Tracking & Visibility

Enable real-time tracking of vehicles, shipments, and assets. By integrating data from GPS systems, RFID tags, and other sources, companies can have complete visibility into their supply chain, enabling them to monitor the status, location, and condition of goods in transit

Risk Management & Security

Analyze historical data, detect patterns, and identify potential risks or security threats in the transport and logistics network. This helps in implementing appropriate measures to mitigate risks, enhance security, and ensure the safety of goods, personnel, and infrastructure

Route Optimization

Analyze historical transportation data, traffic patterns, weather conditions, and other relevant factors to optimize routes and improve efficiency. This helps in reducing fuel consumption, minimizing delivery times, and optimizing overall logistics operations

Supply Chain Risk

Provide end-to-end visibility and insights into the supply chain, enabling companies to identify bottlenecks, streamline processes, and optimize inventory levels. This leads to improved supply chain efficiency, reduced costs, and better decision-making

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WATER UTILITIES

Transform water management with data-driven efficiency, proactive leak detection, and optimized resource allocation

Consumption Analysis

Collecting and analyze data from smart meters, sensors, and billing systems for water utilities to gain insights into consumption trends, identify anomalies, and detect potential leaks or wastage. This helps in optimizing water distribution, improving conservation efforts, and reducing non-revenue water

Demand Forecasting

Forecast water demand based on historical usage data, weather patterns, population growth, and other factors. By leveraging predictive analytics, water utilities can optimize water supply, plan infrastructure investments, and ensure adequate resources to meet future demand or understocking

Leakage Detection & Management

Analyze data from sensors, flow meters, pressure sensors, and acoustic monitoring systems for utilities to identify leak locations, assess leak severity, and prioritize repairs. This helps in reducing water losses, improving network efficiency, and conserving water resources

Predictive Maintenance

Analyze data from sensors, SCADA systems, and historical maintenance records for utilities to implement predictive maintenance strategies, schedule proactive repairs, and optimize asset management. This helps in reducing downtime, improving infrastructure reliability, and minimizing operational costs

Real-time Monitoring & Control

Support real-time monitoring and control of water distribution systems by integrating data from sensors, IoT devices, and SCADA systems, utilities can monitor water flow, pressure levels, and system performance. This enables timely response to operational issues, enables remote control of assets, and improves overall system efficiency

Regulatory Compliance & Reporting

Assist water utilities in managing regulatory compliance and reporting requirements. By analyzing and consolidating data from various sources, utilities can streamline compliance processes, ensure adherence to regulations, and generate accurate reports on water quality, usage, and operational performance

Water Quality Monitoring

Enable real-time monitoring and analysis of water quality parameters, such as pH levels, turbidity, and contaminants. By integrating data from sensors, water quality monitoring systems, and external sources, utilities can identify water quality issues, implement timely remediation measures, and ensure compliance with regulatory standards

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Industry Applications

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60% reduction in engineering labor costs

6x increased speed to market of projects

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