SIGHTSKY INFOTECH

From Challenge to Impact

Case Insights

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Executive Summary

This case study compilation presents a curated portfolio of strategic solutions delivered by Sightsky Infotech across core service areas:

- Cloud Services
- DevOps & Automation
- AI & Machine Learning
- Data Science & Analytics, &
- Software Development.

Objectives

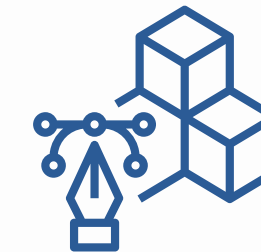**Reduced operational costs and time-to-market**
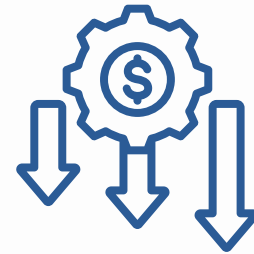
Improved system **scalability, uptime, and compliance**

Data-driven decision-making and AI-powered automation

User-centric digital **product design and engineering**

Cloud
Services

From multi-cloud modernisation to disaster recovery and SAP migration, our cloud services empower global enterprises with agility, compliance, and cost-efficiency.

Global Multi-Cloud Strategy for Retail Conglomerate

Client: Retail Group operating across 9 countries

The client lacked a cohesive multi-cloud strategy, resulting in vendor lock-in, inconsistent security policies, and complex compliance issues.

Sightsky's Strategic Impact

Sightsky Infotech developed a vendor-agnostic multi-cloud architecture with centralised identity, monitoring, and cost governance:

- Designed landing zones using AWS Control Tower, Azure Blueprints, and GCP Projects
- Implemented IAM federation using Azure AD
- Deployed a unified observability stack (DataDog, CloudWatch, Azure Monitor)
- Created automated guardrails using Policy as Code (OPA + Terraform Sentinel)

Key Achievements

Improved vendor flexibility, reduced cloud cost spend by 23%, and met GDPR & PCI-DSS compliance globally.

Platforms

Cloud-Native Platform Modernisation for Insurance Leader

Client: Insurance company with 300+ apps

Legacy monolithic on VMs caused high maintenance, poor scalability, and low agility.

Sightsky's Strategic Impact

- Modernised apps to microservices using Azure Kubernetes Service (AKS)
- Used Azure DevOps for CI/CD and infrastructure as code with Bicep
- Integrated with Azure API Management and Azure Key Vault for secure comms
- Deployed centralised secrets, monitoring, and service mesh (Istio)

Key Achievements

Reduced deployment time by 85%, increased availability to 99.99%, and cut infra costs by 30%.

Platform

Microsoft Azure

Disaster Recovery as a Service (DRaaS) for a Healthcare System

Client: National Healthcare Chain

No effective disaster recovery plan; existing on-prem backup was slow, manual, and non-compliant.

Sightsky's Strategic Impact

- Implemented DRaaS using AWS Elastic Disaster Recovery + CloudEndure
- Replicated 80+ workloads across 3 regions with auto-failover playbooks
- Conducted DR drills quarterly with zero production impact
- Hardened backup security with AWS KMS, IAM boundary policies, and GuardDuty

Key Achievements

Achieved RTO < 15 mins and RPO < 1 hour. Enabled HIPAA-compliant recovery across critical operations.

Platform

SAP S/4HANA Migration to Cloud

Client: Global Manufacturing Enterprise

On-prem SAP limited agility for upgrades, integrations, and analytics.

Sightsky's Strategic Impact

- Migrated SAP S/4HANA to Google Cloud Bare Metal Solution
- Deployed SAP HANA on GCE VMs with high IOPS SSD
- Integrated with BigQuery for advanced analytics
- Set up DR with multi-zone replication and Cloud DNS failover

Key Achievements

Reduced TCO by 35%, enabled faster reporting, and unlocked cloud-native innovation on GCP.

Platform

Google Cloud

Cloud Security Framework Implementation for a FinTech Startup

Client: FinTech Regulatory Platform

Security audits revealed major gaps in access control, data protection, and logging.

Sightsky's Strategic Impact

- Designed and enforced Zero Trust Architecture
- Enabled RBAC + Conditional Access + PIM in Azure AD
- Deployed Azure Defender, Sentinel SIEM, and secure baselines with Azure Blueprints
- Integrated vulnerability management and endpoint protection

Key Achievements

Passed ISO 27001 audit on the first attempt. Reduced threat surface significantly and achieved 24x7 threat visibility.

Platform

Microsoft
Azure

DevOps & Automation

From unified GitOps frameworks to MLOps pipelines and infrastructure automation, our solutions have helped global enterprises cut costs, boost deployment speed, and achieve audit-ready operations at scale.

Unified GitOps Platform for Multinational Banking Group

Client: Global Banking Enterprise (Headquartered in the UK)

Developers across 15+ teams lacked standardised CI/CD pipelines. Manual deployments, drift, and inconsistent configurations plagued the release process.

Sightsky's Strategic Impact

- Built a GitOps platform with ArgoCD for CD and Terraform modules for IaC
- Integrated multi-environment pipeline workflows with Helm + Kustomize
- Adopted policy-as-code with Open Policy Agent (OPA)
- Shifted secrets to Vault + sealed-secrets
- Enabled automated approvals and RBAC with Azure DevOps integrations

Key Achievements

Deployment reliability improved by 90%. Enabled full auditability, rollback, and traceability across all dev teams.

Tools

Kubernetes Operations Automation for Telecom Operator

Client: Regional Telecom Provider (Asia)

Kubernetes environments were provisioned manually with no autoscaling or monitoring standardization. Node underutilization caused rising cloud bills.
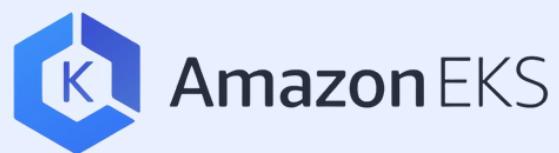
Sightsky's Strategic Impact

- Automated cluster creation using IaC (Terraform + EKS blueprints)
- Used Karpenter for dynamic autoscaling
- Created Helm charts for all microservices with GitLab CI-based release pipelines
- Standardized logging and monitoring with Prometheus + Loki + Grafana
- Deployed cost dashboards and alerting pipelines

Key Achievements

Reduced ops effort by 70%, cut infra cost by 25%, and improved observability across 50+ workloads.

Tools

End-to-End DevSecOps for Government Services Portal

Client: Public Sector Portal (India)

High security risks during code deployments and manual scans delayed go-live timelines.

Sightsky's Strategic Impact

- Designed a secure SDLC integrating SAST, DAST, and container image scanning
- Enabled Jenkins pipelines with integrated SonarQube and Checkov
- Used AquaSec to scan Docker images; enforced quality gates for promotion
- Deployed signed artifacts to secure the Nexus repo
- Integrated Slack and email-based alerting for security violations

Key Achievements

Reduced security vulnerability exposure by 60%. Passed stringent compliance audits (CERT-In, OWASP Top 10)

Tools

Terraform Cloud & CI/CD Consolidation for SaaS Company

Client: SaaS CRM Platform (Europe)

Infrastructure code was managed manually across regions, resulting in inconsistent deployments and a lack of visibility into changes.

Sightsky's Strategic Impact

- Shifted all IaC to Terraform Cloud workspaces
- Automated environment provisioning with reusable modules
- CI/CD flows are defined in GitHub Actions and CircleCI pipelines
- Implemented Git tagging and auto-rollback based on health checks

Key Achievements

Accelerated infra delivery by 3x. Enabled full visibility and compliance tracking across dev/staging/production

Tools

DevOps Automation for AI/ML Pipelines

Client: Healthcare AI Startup

Model training, validation, and deployment were manual, error-prone, and time-consuming.

Sightsky's Strategic Impact

- Created an MLOps pipeline using Kubeflow Pipelines and MLflow tracking
- Automated Docker builds and validation via Jenkins
- Integrated with AWS Step Functions to orchestrate model promotion logic
- Enabled auto-rollback of poor-performing models with trigger thresholds

Key Achievements

Model deployment frequency improved by 5x. Reduced time-to-production from weeks to 2 days

Tools

Artificial Intelligence & Machine Learning

Harnessing intelligent systems to drive personalisation, security, automation, and predictive insights across industries. From fraud detection and smart recommendations to OCR and NLP automation, our AI solutions deliver real-time impact at scale.
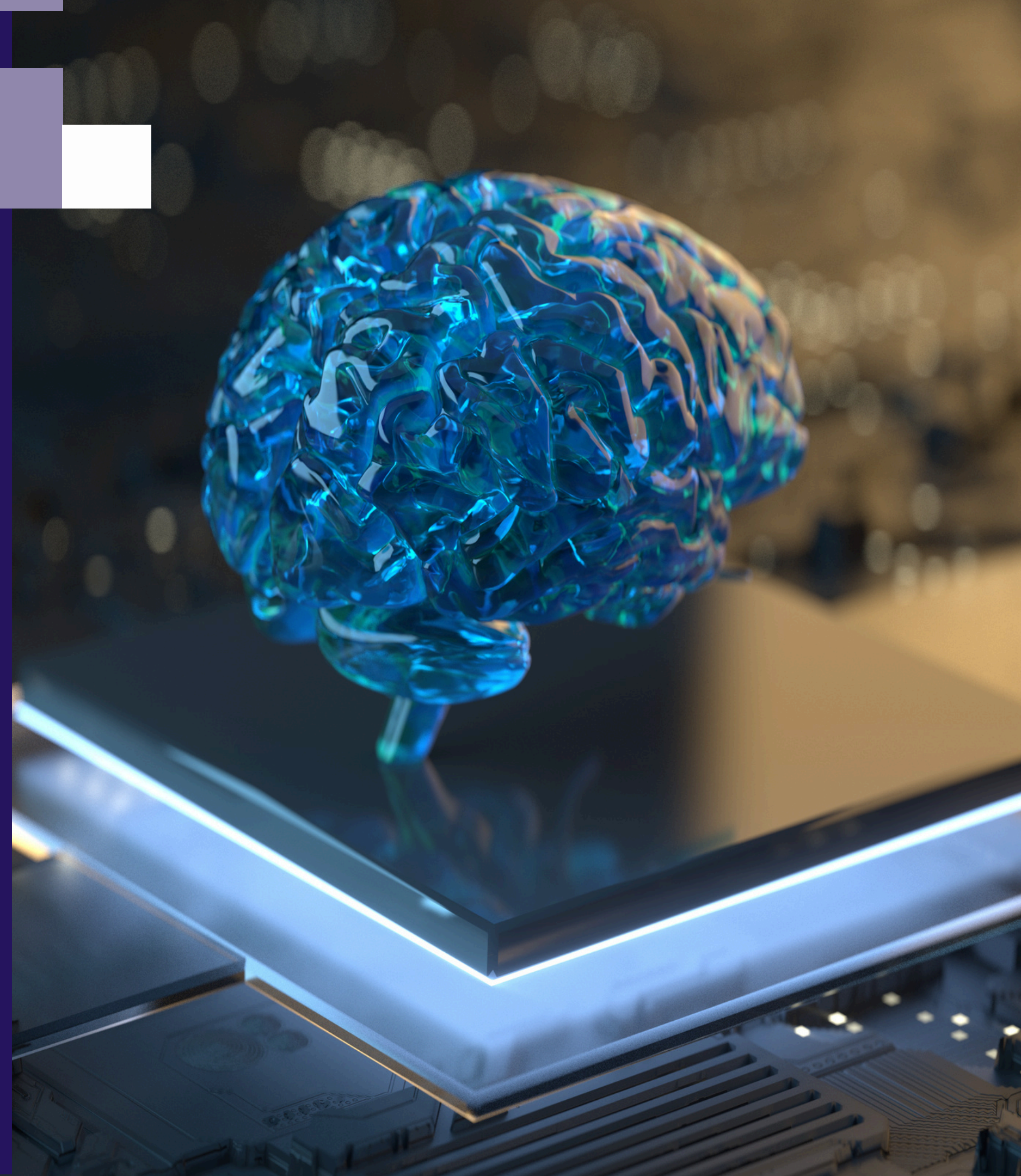
AI-Driven Product Recommendation Engine for E-Commerce Giant

Client: Pan-Asia E-Commerce Platform

Personalisation was limited to rule-based engines, failing to drive conversions or cart retention.

Sightsky's Strategic Impact

- Built a deep learning-based recommendation system using collaborative and content filtering models
- Used Vertex AI Pipelines for automated model training and deployment
- Integrated with BigQuery ML for real-time segmentation
- Cached results with Redis to reduce latency on high-traffic product pages

Key Achievements

Lifted average cart size by 22% and improved click-through-rate (CTR) by 35% in the first quarter post-deployment.

Tools

Fraud Detection System for Digital Wallet Provider

Client: FinTech App with 50M+ users

Rising chargebacks and undetected fraud due to rule-based systems not scaling with the user base.

Sightsky's Strategic Impact

- Built a real-time fraud detection engine using SageMaker and PyTorch
- Ingested transaction data via Kafka streams
- Trained ensemble models (XGBoost + deep neural nets) on behaviour patterns
- Integrated with transaction approval APIs and alerting systems

Key Achievements

Flagged 97% of fraudulent transactions under 2 seconds. Reduced financial fraud losses by 40%.

Tools

AI-Powered OCR for Logistics Document Automation

Client: Global Logistics and Supply Chain Firm

Manual entry of shipping labels, invoices, and customs forms led to delays and errors in shipment.

Sightsky's Strategic Impact

- Developed an OCR pipeline using Azure Cognitive Services + Form Recognizer
- Custom-trained models for multi-language, multi-format docs
- Used OpenCV for image preprocessing and layout detection
- Integrated with internal ERP via secure APIs built in FastAPI

Key Achievements

95% accuracy in document digitisation. Reduced manual processing time from 2 days to under 4 hours per shipment batch.

Tools

OpenCV   FastAPI   mongoDB

Predictive Maintenance for Industrial Equipment

Client: Heavy Machinery Manufacturer

Unplanned downtime and reactive maintenance were causing operational and revenue losses.

Sightsky's Strategic Impact

- Deployed edge IoT sensors connected to AWS IoT Core
- Streamed time-series data into AWS IoT Analytics and S3
- Trained LightGBM-based predictive models using equipment telemetry
- Alert dashboards powered via Grafana + SNS notifications

Key Achievements

Achieved 87% accuracy in failure prediction. Cut maintenance downtime by 32% and improved spare parts planning.

Tools

AWS IoT   Amazon SageMaker   LightGBM   Grafana

NLP-Powered Support Ticket Classification for SaaS Helpdesk

Client: Customer Service Platform

Thousands of daily support tickets were manually routed, causing misclassification and delays.

Sightsky's Strategic Impact

- Built an NLP classifier using BERT fine-tuned models hosted on Azure ML
- Used spaCy pipelines for pre-processing and named entity recognition
- Implemented intelligent routing using classification + intent scoring
- Integrated with ServiceNow and Zendesk workflows via REST APIs

Key Achievements

Automated over 80% of ticket triaging. Average response time reduced by 46% and SLA compliance improved by 28%.

Tools

spaCy   🤗 Hugging Face   Azure Machine Learning

Data Science

From demand forecasting and churn prediction to risk scoring and sentiment analysis, our data science solutions help clients make faster, smarter, and more informed decisions—driving measurable impact across industries.

Real-Time Demand Forecasting for a Retail Chain

Client: Multi-brand Retailer with 1,500+ stores

Stock-outs and overstock were frequent due to inaccurate, manual forecasting processes across SKUs and locations.

Sightsky's Strategic Impact

- Centralised data pipeline using PySpark and Snowflake
- Trained forecasting models using Facebook Prophet and ARIMA
- Integrated promotional events, holidays, and weather patterns into feature sets
- Visualised forecasts in Tableau dashboards with actionable alerts

Key Achievements

Improved demand forecast accuracy by 38%. Reduced inventory holding costs by 21% across regions.

Tools

Customer Churn Prediction for Subscription Business

Client: Streaming Service with 10M+ Subscribers

Churn rate was increasing, but the company had no actionable insight into which users were at risk and why.
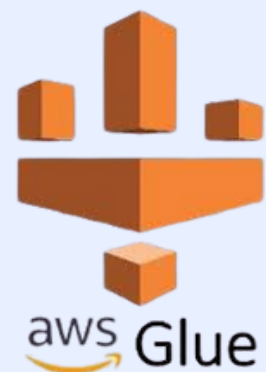
Sightsky's Strategic Impact

- Built ETL pipelines via AWS Glue to process behavioural and transactional data
- Trained XGBoost churn models, validated with AUC/ROC
- Used SHAP for model explainability, identifying key churn drivers
- Integrated with CRM to trigger proactive retention campaigns

Key Achievements

Retention improved by 17%. The Customer Success team leveraged insights for personalised outreach.

Tools

aws Glue

Amazon SageMaker

dmlc XGBoost

Advanced Analytics for Financial Portfolio Risk Scoring

Client: WealthTech Platform

Risk assessment relied on historical summaries, ignoring real-time correlations and volatility patterns.

Sightsky's Strategic Impact

- Developed a custom risk scoring engine based on Sharpe Ratio, Value at Risk (VaR), and volatility clustering
- Applied clustering techniques (K-Means, DBSCAN) for customer segmentation
- Delivered Power BI dashboards with real-time API integrations

Key Achievements

Provided accurate, real-time risk grades across 40k+ portfolios. Improved investor transparency and regulatory compliance.

Tools

Social Sentiment Analysis for Political Intelligence

Client: Media & Policy Research Firm

Manual tracking of social sentiment across multiple regions limited real-time political insights.

Sightsky's Strategic Impact

- Built Twitter and news crawlers using Tweepy and NewsAPI
- Performed sentiment analysis using BERT NLP models
- Visualised influencer networks via Neo4j and built dashboards using Streamlit
- Enabled alerts for spikes in negative sentiment or trending policy topics

Key Achievements

Improved reaction time for campaign strategies. Used by 3 political agencies during national elections.

Tools

Healthcare Data Lake for Advanced Patient Analytics

Client: Hospital Network with 80+ Facilities

Fragmented data across EMR systems prevented effective patient cohort analysis and research.

Sightsky's Strategic Impact

- Created a secure data lake architecture on Azure
- Ingested EMR, lab, radiology, and wearable data using Azure Data Factory
- Used Databricks notebooks for patient risk scoring and cohorting
- Built self-service dashboards in Power BI for clinical teams

Key Achievements

Enabled 360º patient views and reduced emergency visits by 12% through early intervention analytics.

Tools

Software Development (Web & App)

Building high-performance digital products tailored for scale, security, and user engagement. From remote health apps and construction SaaS to eCommerce platforms and custom LMS solutions, Sightsky delivers robust software that transforms user experiences and drives measurable results.

Cross-Platform Health App for Remote Patient Monitoring

Client: HealthTech Company (North America)

Patients in remote areas had no digital means to track vitals, get medication alerts, or consult doctors without physical visits.

Sightsky's Strategic Impact

- Built a Flutter-based cross-platform app (iOS + Android) for patients
- Integrated with Bluetooth medical devices (BP, Glucometer, etc.)
- Used Firebase for real-time sync and push notifications
- Deployed backend APIs on Google Cloud Run, with Twilio for secure doctor-patient video calls

Key Achievements

App enabled 10,000+ patients in rural zones to access real-time care. Reduced missed appointments by 42% and chronic readmissions by 18%.

Tools

B2B SaaS Platform for Construction Project Management

Client: Civil Infrastructure Tech Firm

Client's teams operated using spreadsheets and emails, leading to miscommunications, lost change orders, and inefficient contractor oversight.

Sightsky's Strategic Impact

- Developed a SaaS platform with modular dashboards for project scheduling, budget control, and subcontractor tracking
- Role-based access with real-time updates and a notification centre
- Integrated with AWS S3 for document storage, and Fargate for elastic backend hosting
- CI/CD via GitHub Actions and CloudFormation

Key Achievements

Adopted by 300+ contractors in the first 6 months. Reduced project overruns by 25% and streamlined communication workflows.

Tools

Marketplace App for Localised E-commerce

Client: Start-up Retail Aggregator (LATAM)

The platform aimed to connect small retailers to buyers via an app, but had no scalable MVP to attract investors or launch regionally.

Sightsky's Strategic Impact

- Designed a feature-rich MVP in 10 weeks
- Implemented geolocation-based product discovery and multi-vendor checkout
- Integrated Stripe for split payments, and notification queues for order updates
- Admin dashboard allowed real-time inventory and vendor onboarding

Key Achievements

Secured Seed funding post-launch. App scaled to 50000 users in 3 cities in 4 months.

Tools
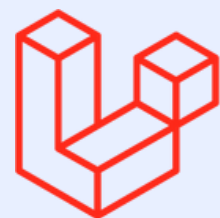
Enterprise Web Portal for Legal Compliance Management

Client: Corporate Legal Firm with Fortune 500 clientele

Clients had no centralised visibility into their compliance obligations, deadlines, or documentation.

Sightsky's Strategic Impact

- Built a compliance management portal with advanced calendaring, document repository, and audit trails
- Enabled granular user permissions via Azure AD B2C + RBAC
- Implemented reporting engine with exportable formats and email alerts
- Secured with multi-tenant architecture and data encryption at rest/in transit

Key Achievements

Used by 60+ large corporates for real-time compliance visibility. Reduced audit penalties and response time drastically.

Tools

Custom LMS (Learning Management System) for EdTech Brand

Client: Online Learning Platform with 100k+ Students

Needed a scalable and engaging platform to deliver live classes, manage courses, and track student progress at scale.

Sightsky's Strategic Impact

- Developed a custom LMS using MongoDB, Express.js, React, Node.js
- Features included a course creator, quiz engine, certificate generator, and student analytics
- Live classes via integrated Zoom APIs, content delivery via AWS CloudFront
- Email engagement using AWS SES + marketing automation

Key Achievements

Platform scaled from 5k to 100k users in 8 months. 30% increase in student retention and 45% improvement in course completion rates.

Tools
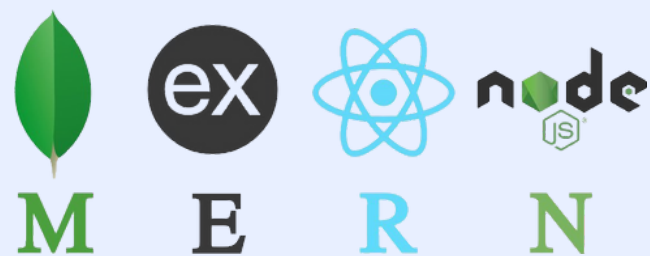
Conclusion

At Sightsky Infotech, we don't just build solutions, **we deliver measurable business outcomes.**

Across industries and use cases, our clients have experienced faster go-to-market, smarter automation, secure cloud adoption, and data-driven growth. Every case study reflects our **commitment to quality**, innovation, and impact.

We genuinely deliver what we promise, on time, at scale, and with precision.

Our clients grow because we grow with them, continuously evolving to meet their goals with agility and expertise.

SIGHTSKY INFOTECH

Get in
Touch

If you have any questions, suggestions, or need assistance, please don't hesitate to reach out to us.

Book a consultation with us

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