



COMPANY PROFILE

WWW.NUQTAH.SA



INTRODUCTION

Empowering Businesses Through Intelligent AI Solutions

Nuqtah is a Riyadh-based AI and digital transformation partner helping organizations harness the power of artificial intelligence, data intelligence, and secure cloud infrastructure to drive measurable business outcomes.

We combine local market understanding with global best practices to deliver solutions that are innovative, scalable, and compliant—empowering enterprises, government entities, and SMEs to thrive in the digital economy.

SERVICES



AI Strategy & Consulting

Identification of high-impact AI use cases, roadmap development, pilot programs, and governance frameworks to ensure responsible AI adoption.



Gen AI & Intelligent Automation

Deployment of generative AI agents, chatbots, and automation workflows for marketing, operations, and customer service.



Custom LLM Training & Private AI Agents

Develop and Deploy private ChatGPT-like models and customized AI agents trained to automate, operate and analyze your data needs and requirements with complete control and security.



AI-Powered Infrastructure

Secure, scalable, and AI-ready environments with cloud orchestration, unified management, and performance optimization.



Data Intelligence & Predictive Analytics

Automated data pipelines, dashboards, forecasting models, and visualization tools to enable informed decision-making.

OUR DIFFERENTIATORS

- **Local Insight, Global Standards** – Deep knowledge of Saudi market dynamics combined with international AI implementation expertise.
- **Custom AI Capabilities** – From private LLM deployments to specialized AI agents tailored to your exact operational needs.
- **End-to-End Partner** – From strategy and design to deployment, training, and optimization.
- **Outcome-Driven** – We focus on delivering measurable KPIs, ROI, and long-term value.
- **Security & Compliance First** – Solutions aligned with regulatory frameworks, governance, and data protection laws.
- **18+ Years of Cumulative Expertise** – Experienced team with a proven track record in IT infrastructure, AI, and transformation projects.



INDUSTRIES WE SERVE

BANKING & FINANCE

Fraud detection,
compliance automation,
and customer insights.

GOVERNMENT & PUBLIC SECTOR

Digital citizen services,
secure AI agents for internal
workflows, and governance
frameworks.

MANUFACTURING & LOGISTICS

Predictive maintenance,
supply chain analytics, and
process automation.

HEALTHCARE

AI-assisted diagnostics,
patient data insights, and
operational efficiency
automation.



DISCOVERY

We analyze your goals, challenges, and data environment to identify high-impact opportunities.



DESIGN

We architect secure, scalable, and compliance-ready AI solutions tailored to your needs.



DEPLOYMENT

We implement with minimal disruption, integrating seamlessly into your existing workflows.



OPTIMIZATION

We continuously refine performance for maximum ROI and efficiency.



EMPOWERMENT

We train your teams to manage, scale, and evolve your AI capabilities.

OUR PROCESS

At Nuqtah, we follow a structured yet flexible approach to ensure every AI and digital transformation project delivers measurable results:

USE CASES

FRAUD DETECTION COPILOT (AGENTIC AI)

What we enabled?

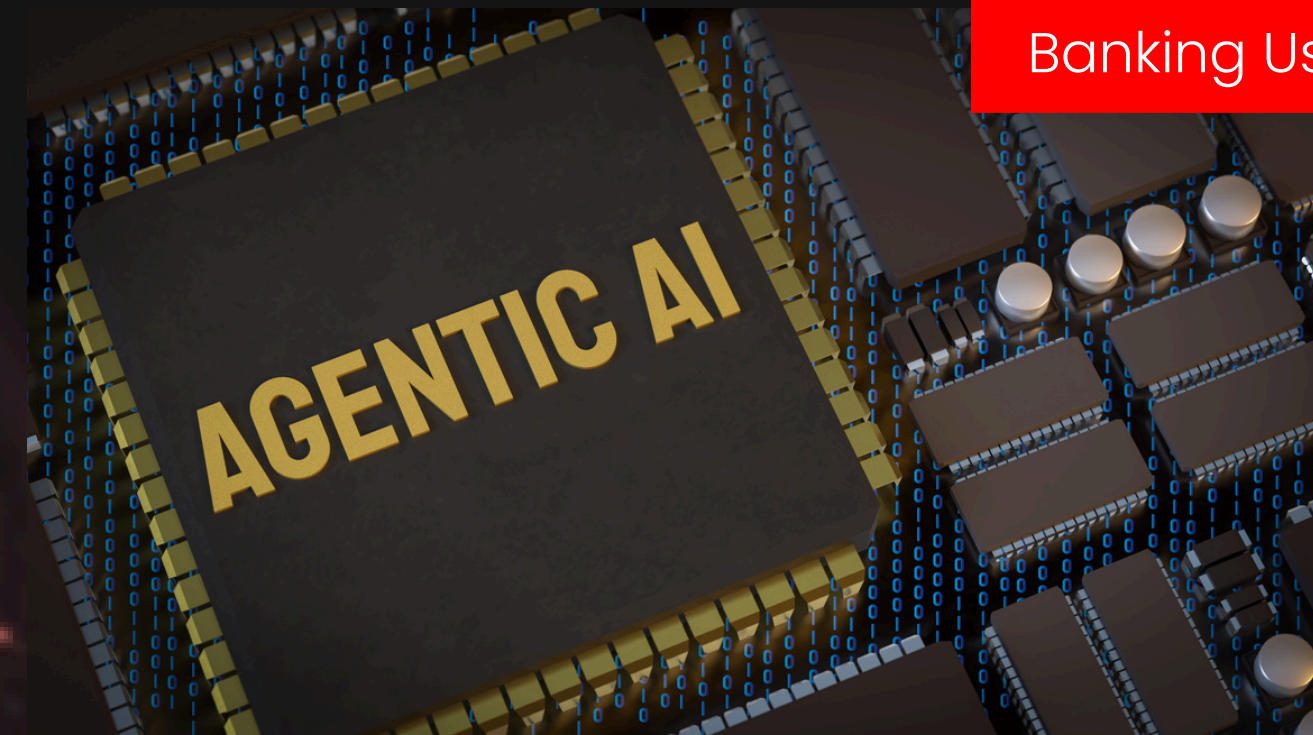
- AI detection of suspicious transactions.
- Automated generation of case summaries.
- Analyst assistant for fraud investigation steps.
- Prioritization of high-risk alerts.

How we did it?

- Trained anomaly detection ML on transaction data.
- Built agentic AI to orchestrate investigation steps.
- Used GenAI to produce case explanations
- Integrated tool into fraud monitoring system

Tech Stack

- ML anomaly detection (Python, scikit-learn)
- LLMs for summaries
- LangChain Agents for workflows
- Cloud-native pipeline on AWS



Banking Use Cases

60%
Faster fraud
investigations.

40%
More cases
closed per
analysts.

25%
Improvement in
detection
accuracy

15%
Reduced false
positives

PERSONALIZED CROSS-SELL & UPSELL ENGINE

What we enabled?

- Targeted product recommendations for credit, loans, and savings.
- Real-time personalization within digital banking apps.
- Segmentation of customers by lifecycle and value tiers.
- Offer generation in personalized, customer-friendly language.

How we did it?

- Trained ML clustering on customer transactions and behaviours.
- Integrated real-time events for contextual triggers.
- Used LLM to generate tailored product offers.
- Embedded engine into CRM and campaign tools.

Tech Stack

- ML clustering models (RFM, usage)
- LLMs for personalization
- Event streaming via Kafka
- CDP + PostgreSQL for profiles

Banking Use Cases



15-20%
Higher
campaign
conversions.

12%
Increase in
cross-sell
revenue.

10%
Higher customer
retention
rate

5%
Reduction in
churn

GENAI CONTRACT & POLICY ASSISTANT (REGTECH)

What we enabled?

- AI search for AML/KYC rules and compliance policies.
- Document Q&A for frontline staff.
- Automated contract reviews with highlights.
- Secure audit trail for compliance validation.

How we did it?

- Built RAG pipelines on AML/KYC rulebooks.
- Connected SAP Ariba contracts to AI engine.
- Deployed GenAI assistant in compliance portal.
- Added approval workflows with human oversight.

Tech Stack

- LLM + LangChain RAG
- AWS S3 + Kendra for document ingestion
- SAP Ariba integration
- Vector DB for fast retrieval

Banking Use Cases



50%
Faster
compliance
queries

30%
Higher
productivity for
compliance
teams

20%
Reduced
compliance-
related costs.

75%
Audit
preparation
reduced

AUTOMATED LOAN

Initiative Overview

A comprehensive digital transformation solution for Meezan Bank's bike financing operations, automating the entire loan application workflow from submission to approval. The Shariah-compliant system leverages intelligent document processing, automated risk assessment, and integrated decision-making to reduce loan processing time from weeks to hours while maintaining Islamic banking principles and regulatory compliance.

Methodology

- Digital Application Intake:** Web and mobile portals with OCR-powered document scanning for automated data extraction from CNIC, income certificates, and bike documentation with 98% accuracy
- Automated Credit Assessment:** Integration with credit bureaus, salary verification systems, and Islamic banking-compliant risk scoring models for real-time creditworthiness evaluation within Shariah guidelines
- Intelligent Workflow Engine:** Business process automation covering application validation, document verification, collateral assessment, and multi-level approvals with configurable rules and Islamic finance compliance checks
- Core Stack:** Python Django, PostgreSQL, Temenos Core Banking integration, RESTful APIs, ReactJS frontend, Docker containerization, and AWS cloud infrastructure



Ambition & Goal:

- Acquisition
- Growth
- Transformation

Potential Industries:

- Digital
- Financial
- Retail
- FMCG
- Government
- Telecom

Use Case Category

- Discovery
- Design
- Deployment

Time

- S
- M
- L
- XL

Cost

- \$
- \$\$
- \$\$\$
- \$\$\$\$

REAL-TIME ALERT SYSTEM & THREAT DETECTION

Initiative Overview

An enterprise-grade in Telecom, AI-powered cybersecurity orchestration platform that delivers comprehensive threat intelligence through behavioral analytics and real-time monitoring. The solution integrates advanced machine learning algorithms with enterprise security frameworks to provide proactive threat detection, automated incident response, and strategic risk mitigation across privileged access management systems and customer experience platforms.

Methodology

- **Strategic Layer:** Alignment with enterprise cybersecurity governance and NIST frameworks, delivering 14 threat classification categories with severity-based escalation protocols
- **Intelligence Layer:** ML-driven behavioral analytics utilizing Facebook Prophet time series analysis for anomaly detection, integrated with TigerGraph knowledge graphs for relationship mapping and threat correlation
- **Operational Layer:** Real-time monitoring across Wallix PAM, CX platforms, and RDP sessions with automated notification systems and administrative dashboards
- **Technology Stack:** Python-based microservices architecture, MySQL enterprise data warehouse, encrypted SMTP communications with comprehensive audit trails



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Growth

Transformation

Potential Industries:

Digital

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Retail

FMCG

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Use Case Category

Discovery

Design

Deployment

Time

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XL

Cost

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OCR DETECTION & TEXT RETRIEVAL FROM PDF

Initiative Overview

A sophisticated document intelligence platform engineered for high-stakes processes, combining advanced optical character recognition with intelligent data extraction capabilities. The solution transforms unstructured documents into actionable data while maintaining the highest standards of accuracy, auditability, and data integrity required for democratic institutions.

Methodology

- **Intelligent Preprocessing:** Advanced computer vision pipeline featuring automatic deskewing, noise reduction, contrast optimization, and template alignment for heterogeneous document standardization
- **Precision Extraction:** Custom-trained layout detection models for field zone identification, combined with high-accuracy OCR engines and sophisticated post-processing including regex validation and entity recognition
- **Data Architecture:** PostgreSQL enterprise data warehouse with structured schema design, secure image asset management, and comprehensive metadata tracking for full document lifecycle traceability
- **Quality Assurance:** Multi-layered validation including confidence scoring, business rule verification, duplicate detection, and human-in-the-loop review queues for critical data validation
- **Multilingual Capabilities:** French-primary with configurable character set support and locale-specific format handling for names, dates, and identification numbers.



Ambition & Goal:

Acquisition Growth **Transformation**

Potential Industries:

Digital Financial Retail

FMCG **Government** Telecom

Use Case Category

Discovery Design Deployment

Time

S **M** L XL

Cost

\$ **\$\$** \$\$\$ \$\$\$\$



CONTACT US

Phone

+966-53-5500363

Email

info@nuqtah.sa

Website

nuqtah.sa



Nuqtah Business Solutions