

AI-POWERED LOAN ORIGINATION TRANSFORMATION (6-Week Implementation)

Transform Lending Operations With Azure OpenAI And Intelligent Automation

Pricing : \$45,000 | Categories : AI & Machine Learning, Financial Services, App Modernization

AZURE SERVICES USED : Azure OpenAI Service, Azure Form Recognizer, Azure Machine Learning, Azure Cognitive Services, Azure API Management, Power Platform (Apps, Automate, BI), Azure SQL Database, Azure Key Vault, Azure Monitor

The Challenge

Financial institutions face significant loan origination challenges:

- ✓ 56% of bankers cite manual data collection as biggest challenge (Moody's)
- ✓ Average processing time: 30-45 days
- ✓ High error rates from manual document processing
- ✓ Poor customer experience with multiple touchpoints
- ✓ Compliance risks from inconsistent processes
- ✓ Rising operational costs

Our Solution

Celestial Systems delivers end-to-end AI-powered loan origination transformation using Azure's services. Our 6-week implementation combines Azure OpenAI, Form Recognizer, Machine Learning, and Power Platform to create an intelligent, automated lending experience that reduces processing time by 60%.

What Makes This Different

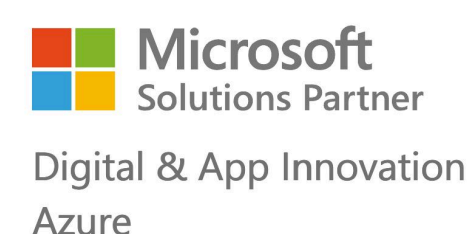
- ✓ Industry-Specific: Built for lending operations with pre-configured workflows
- ✓ Rapid Time-to-Value: Results in 6 weeks, not 6 months
- ✓ Azure-Native: Fully leverages Azure consumption commitments
- ✓ Proven Methodology: Based on successful financial services implementations

Key Features

- 1. INTELLIGENT LOAN APPLICATION ASSISTANT**
 - Azure OpenAI-powered chatbot guides applicants
 - Natural language understanding of customer queries
 - Automated product recommendations
 - 24/7 availability across web and mobile
- 2. AUTOMATED DOCUMENT PROCESSING**
 - Azure Form Recognizer extracts data from documents
 - Validates income statements, tax returns, IDs
 - 95%+ accuracy in data extraction
 - Reduces manual entry by 80%
- 3. AI-ENHANCED CREDIT DECISIONING**
 - Azure Machine Learning models for risk assessment
 - Real-time credit scoring
 - Explainable AI for regulatory compliance
 - Integration with credit bureaus
- 4. WORKFLOW AUTOMATION**
 - Power Automate for end-to-end process orchestration
 - Automated notifications and escalations
 - Task assignment and tracking
- 5. ANALYTICS & INSIGHTS**
 - Power BI dashboards for loan pipeline visibility
 - Predictive analytics for volume forecasting
 - Performance metrics and KPIs

Business Outcome

- ✓ 60% reduction in loan processing time
- ✓ 80% decrease in manual data entry
- ✓ 95%+ document processing accuracy
- ✓ 40% improvement in customer satisfaction scores
- ✓ 30% reduction in operational costs
- ✓ Enhanced compliance and audit trail



6-Week Consulting Engagement

Week 1-2
DISCOVERY & DESIGN

- Assess current loan origination workflows
- Identify automation opportunities and pain points
- Define success criteria and KPIs
- Design Azure architecture (OpenAI, Form Recognizer, ML)
- Create data integration plan with core banking systems
- Establish compliance and security framework

Deliverables : Current state assessment, Azure solution architecture, Implementation roadmap, Success metrics dashboard



Week 3-4
BUILD & INTEGRATE

- Deploy Azure OpenAI conversational AI for customer interactions
- Implement Azure Form Recognizer for document processing
- Configure Azure Machine Learning for credit decisioning support
- Integrate with existing core banking systems
- Build Power Apps interface for loan officers
- Implement Azure API Management for secure integrations

Deliverables : Deployed Azure AI services, Integrated loan application interface, Document processing automation, Credit decision support engine



Week 5
TESTING & REFINEMENT

- Conduct user acceptance testing
- Refine AI models based on test data
- Optimize workflows and automations
- Security and compliance validation
- Performance tuning and load testing
- Train staff on new system

Deliverables : Testing reports, User training materials, System documentation



Week 6
DEPLOYMENT & ENABLEMENT

- Production deployment
- Cutover planning and execution
- Knowledge transfer sessions
- Create production support runbook
- Develop 90-day adoption roadmap
- Executive readout presentation

Deliverables : Production-ready loan origination system, Operations runbook, 90-day scaling roadmap

Celestial: Empowering Enterprises Since 2001

Based in Vancouver, Canada with worldwide offices and a fully in-house engineering team, we combine a heritage of industry leadership in application engineering with deep expertise in data and AI solutions.

At Celestial, we’re passionate about empowering enterprises to leverage the power of AI to unlock new opportunities, minimize risk, and sharpen their competitive edge.

375+

employees worldwide

250+

clients

20+

multi year engagements

1500+

mission critical applications

