ARTIFICIAL INTELLIGENCE IN BANKING

Artificial intelligence and advanced analytics-driven decision making has transformed the ability of smaller, nimbler financial providers to compete with larger institutions.

Today, big data coupled with advanced statistical models and machine learning algorithms can uncover patterns in your organization's data which are otherwise impossible to decipher using traditional analytics tools.

At Nagarro, we have helped clients move from data to insights to predictions quickly and derive tangible business outcomes via a value driven analytics approach and agility led by experienced data science professionals. We have helped many of our customers acquire new customers, increase their customer lifetime value, reduce fraud, and optimise their operations using artificial intelligence.

SERVICE OFFERINGS

Data Engineering

How to make use of your disparate data sources?

We develop end-to-end data platforms and lakes to gather data from multiple sources, engineer data into structured taxonomies, and perform data cleansing to enable advanced learning solutions.

Machine Learning

Which product is your customer likely to buy?

We build advanced machine learning algorithms using multiple statistical frameworks on your data to provide predictive insights on your customer preference and behavior.

Deep Learning

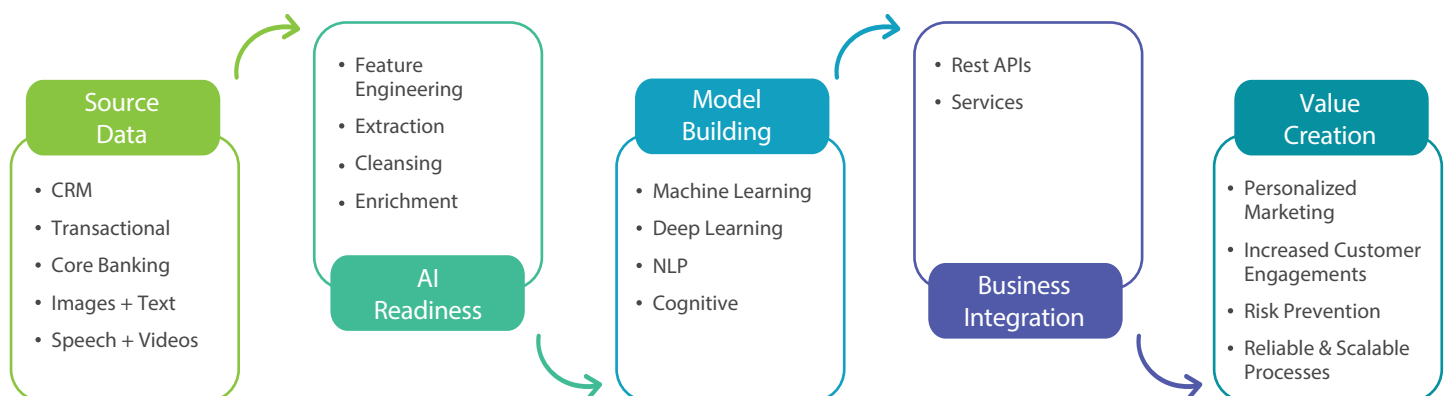**Want to improve your customer experience?**

We create neural network-driven deep learning models to understand image, text, and voice to provide higher and responsive experience to your customers across channels.

Cognitive Decisioning

Want machine-enabled human-like experience?

We leverage natural language processing algorithms to automate bot-driven customer interactions for scalability and consistency.

BUSINESS REALIZATION FROM AI

Source Data
- CRM
- Transactional
- Core Banking
- Images + Text
- Speech + Videos

AI Readiness
- Feature Engineering
- Extraction
- Cleansing
- Enrichment

Model Building
- Machine Learning
- Deep Learning
- NLP
- Cognitive

Business Integration
- Rest APIs
- Services

Value Creation
- Personalized Marketing
- Increased Customer Engagements
- Risk Prevention
- Reliable & Scalable Processes

OUR PARTNERSHIPS

Microsoft   IBM   MAPR   python   sas

Intelligent character recognition using neural networks

For one of the largest banks in Central and Eastern Europe, Nagarro developed an advanced neural network-based OCR algorithm that extracts information blocks from handwritten banking forms and converts them into digital text with more than 80% accuracy. By implementing this solution, the client was able to significantly reduce their shared services cost.

Machine learning driven product recommendation engine

Nagarro developed a proprietary machine learning-based algorithm for a global retail bank to predict buying preferences of customers. The solution made personalized product recommendations for the following month based on a customer's demographic and past purchase behavior of similar clusters.

Real-time fraud analytics and customer profiling

Nagarro implemented a fraud transaction monitoring system for a prominent client in the banking industry. The system matches each incoming transaction against the 'usual' behavior of the sender, the receiver, and the geotag of the transaction, and then determines the probability of the transaction being fraudulent. The solution currently processes over 500,000 transactions per day with a response time of 1 second.

Virtual assistant chatbot

Nagarro developed a chatbot assistant for a leading provider of financial services globally. By leveraging the MS Bot framework and MS Cognitive Services, the assistant effectively simulated a conversation, showcasing the capability of multiple intent management. The solution enabled customers to interact through voice commands and web chat, and helped reduce the response time as well as operational costs.