



Transforming treasury with emerging technology

Madison Donnini, VP, Working Capital Consultant

Faraz Azam, *VP, Group Product Manager*

March 8, 2022

Meet today's speakers



Madison Donnini, VP
Working Capital Consultant

Takes an innovative approach in helping clients optimize their treasury processes.

Prior to her current role, Madison led the design thinking practice for a U.S. Bank innovation team.



Faraz Azam, VP
Group Product Manager

Leads treasury management digital transformation efforts, with a key goal of developing digital and seamless client experiences.

Prior to U.S. Bank, Faraz worked at Goldman Sachs leading various digitization efforts with a focus on client experience.



Technology and how it applies to treasury

- Robotic Process Automation (RPA)
- Machine Learning (ML)
- Artificial Intelligence (AI)
- APIs
- Cryptocurrency
- Blockchain

Definitions

Robotic Process Automation (RPA)	Machine Learning (ML)	Artificial Intelligence (AI)
<p>Rule-based algorithm that automates repeatable processes, that perform the same way every time. It is not “intelligent” and cannot learn or improve over time.</p>	<p>Algorithms that can extract patterns from datasets and use those patterns to predict and make real time decisions automatically.</p>	<p>The theory and development of computer systems able to perform tasks that normally require human intelligence. Such as visual perceptions, speech recognition, and decision making.</p>



Common use cases



Robotic Process Automation (RPA)

Online shopping,
real-time inventory



Machine Learning (ML)

Netflix
recommendations

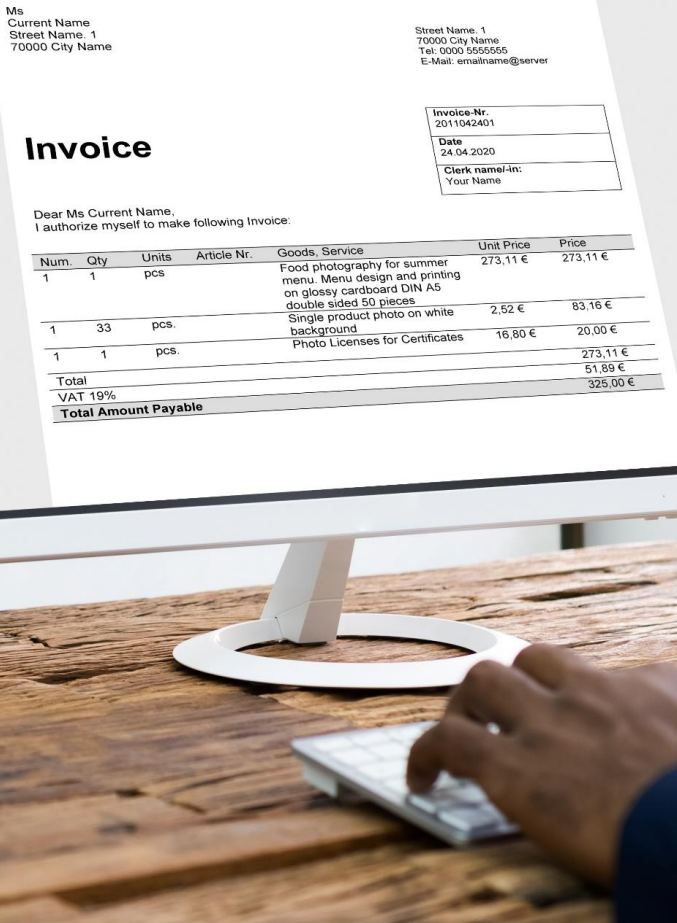


Artificial Intelligence (AI)

Siri, Alexa
(natural language
processing)

Treasury use cases

Invoice capture and automation



Robotic Process Automation (RPA)

Download the electronic invoice and upload into a folder.

Machine Learning (ML)

Capture the data and learn from the data.

Understanding that 03/08/22 is the same as March 8, 2022. Joe Smith is the same as Joseph Smith.

Artificial Intelligence (AI)

Continue to gain intelligences and predict outcomes.

Enable automatic 2- or 3-way match. Understand that the invoice could be fraudulent and flag for human intervention.



Application Program Interface (APIs)

Connects two or more unique applications, allowing the exchange of information in real-time.

Common API use – ride share application



API treasury use case – Account validation

Account validation payment types:

ACH | Checks | Wire | Real-Time Payments (RTP®)

Verify first:

Before you pay, confirm account status and check registered account owner.

How it works:

Access a secure national shared database of checking and savings accounts formed by thousands of trusted financial institutions as your source for verification.

Cryptocurrency and blockchain

Cryptocurrency

A digital asset, mined and stored electronically. It is designed to act as a medium of exchange, and unlike a traditional physical coin or currency, it is exchanged online using principles of a peer-to-peer data exchange.

Popular cryptocurrencies
Bitcoin, Ethereum and Tether

Blockchain

An underlying technology that supports cryptocurrency. An open, distributed database ledger that is decentralized across a network and records transactions between parties. It appends transaction history as subsequent transactions occur, using cryptography to enable each participant to add the ledger in a secure way.

Popular blockchain
Ethereum, R3 Corda, Ripple, Hyperledger Fabric

Why some businesses are using cryptocurrency and blockchain



Accessing a new demographic

- 40% of customers who pay with crypto are new customers of the merchant¹

New type of capital and liquidity pools

- Balancing assets to cash, trying to beat inflation

Programable money

- Smart contracts on a blockchain

Cross-border transactions

- Could reduce cost and settlement times



Thank you



Learn more at Financial IQ:

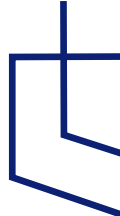
<https://financialiq.usbank.com/index.html>



Follow us on LinkedIn:

<https://www.linkedin.com/showcase/corporate-and-commercial-banking/about/>

Disclosures



Deposit products offered by U.S. Bank National Association. Member FDIC. ©2021 U.S. Bank.

RTP® is a registered service mark of The Clearing House Payments Company L.L.C.

Account Validation is provided in collaboration with Early Warning Services, LLC. Use of the service is governed by the federal Fair Credit Reporting Act. A vetting process is required prior to use of the service. Eligibility requirements, restrictions on usage and fees apply.

This information represents the opinion of U.S. Bank and is not intended to serve as a recommendation or solicitation for the purchase or sale of any particular product or service. It does not constitute advice and is issued without regard to any particular objective or the financial situation of any particular individual. These views are subject to change at any time based upon market or other conditions and are current as of the date indicated on these materials.