



More Productive Data & AI

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Vice President, Applied AI and Modeling R&D

Tools for Productivity & Innovation

**SAS Viya
Workbench**

**SAS Data
Maker**

**SAS Viya
Copilot in
Model Studio**

INNOVATION

PRODUCTIVITY

Microsoft
Azure

Python
Libraries

Advanced
SAS
Procedures

SAS Viya Workbench

Latest Features

Enterprise
Guide
Integration

R support

And more!



SAS® Viya® Workbench

World-class analytics at your fingertips

Workbenches

1 workbench left [New workbench](#)

RDemo

RDemo

Last updated: Apr 23, 2025, 6:03 AM

Maximum compute: 8 cores, 32GiB RAM ▾

Running

[Launch VS Code - SAS and R](#) ▾

Workbench

Demo

Last updated: Apr 23, 2025, 7:41 AM

Maximum compute: H100 GPU ▾

Running

[Launch Visual Studio Code](#) ▾

How To



Get Started

Learn about the capabilities of SAS Viya Workbench and how to get started with SAS.

[View Documentation](#)



Provide Feedback

Tell us about your experience.

[Submit Feedback](#)



Developers

Love that it's flexible
and fast.



Decision Makers

Love how it inspires
your developers and
the innovations they
produce.

**SAS Viya
Workbench**

Tools for Productivity & Innovation

SAS Viya
Workbench

SAS Data
Maker

SAS Viya
Copilot in
Model Studio



SAS® Data Maker

Your gateway to seamless synthetic data generation

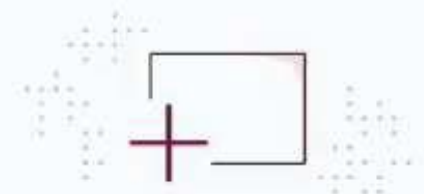
New project

Projects

Search



How to



Create a project to get started.

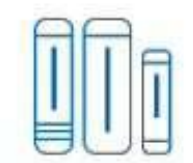
New project



Overview

See an overview of SAS Data Maker.

[Watch video](#)



Get Started

Learn about SAS Data Maker.

[View documentation](#)



Provide Feedback

We would love to hear about your experience.

[Submit feedback](#)

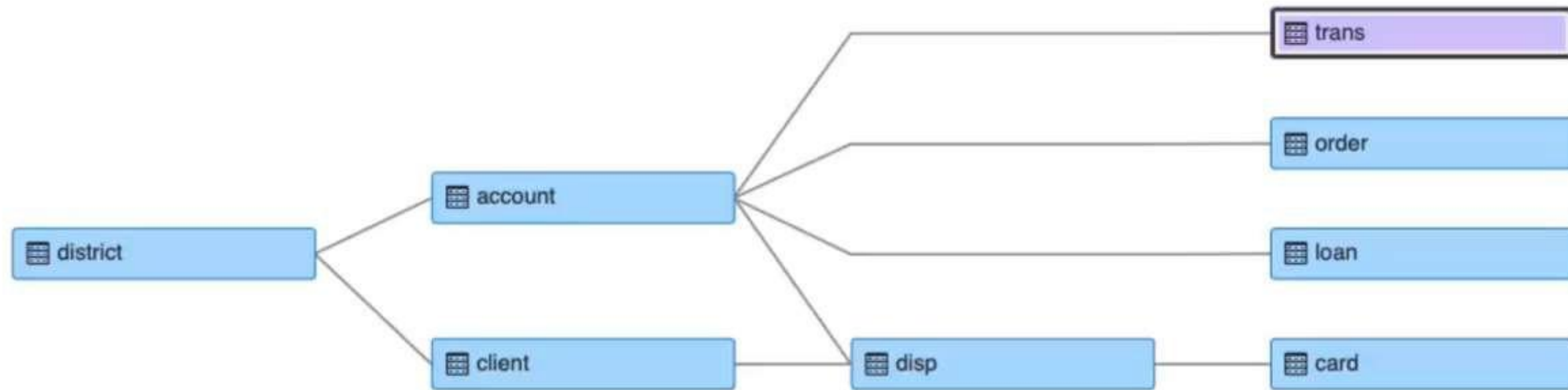
INNOVATE DEMO

Source Data Training Evaluation Generate

Default model

- account
- card
- client
- disp
- district
- loan
- order
- trans

Structure Columns



trans

Source: banking/trans.csv.gz

Table type: Sequential

Sequential id: account_id

Sort by

Primary key: trans_id

Foreign keys: Key: accoun... Target: ACCOUNT.acc...

+ Add foreign key

Date modified: Dec 31, 1, 11:23 PM

Date created: Apr 17, 2025, 5:20 PM

Size: 38.15 MB

☰ INNOVATE DEMO

Source Data Training Evaluation Generate

🕒 25 Apr 2025 at 14:55

📄 This model has been trained. Make a copy to train with different settings.

[Make a Copy and Edit](#)

Cross-table mutual information



Degree distribution



Density disclosure



Marginal distribution



Mutual information



Presence disclosure

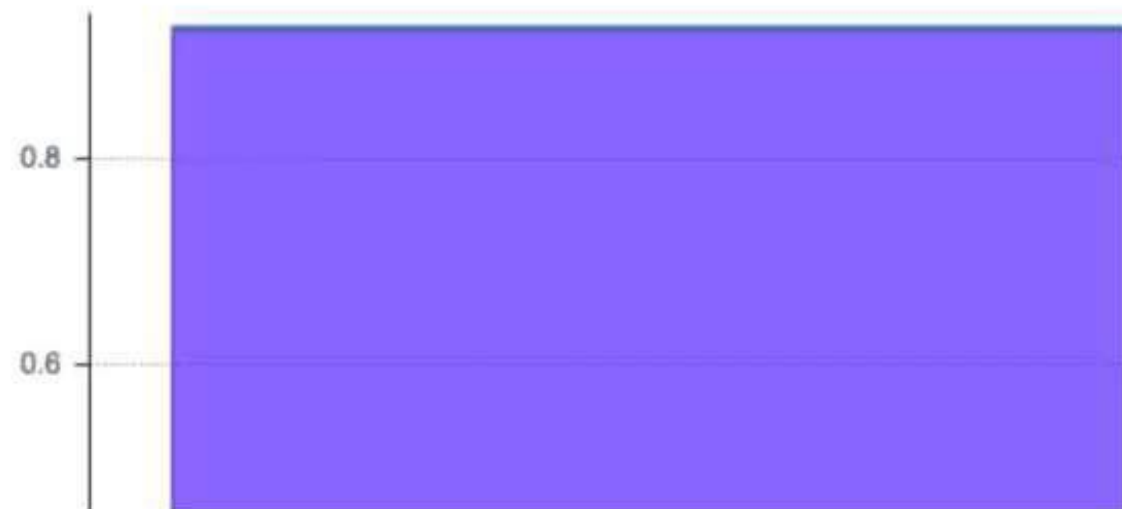


Assessment Metrics

Generated Data Sample

Marginal distribution

Column account.frequency (99.5%)





Developers

Love having
endless amounts
of high-quality data.



Decision Makers

Love doing
ground-breaking work
with so much data.

**SAS Data
Maker**

Tools for Productivity & Innovation

SAS Viya
Workbench

SAS Data
Maker

SAS Viya
Copilot in
Model Studio

< Projects

Home Loans

▶ ↺ 1 ⚙️ ⋮

Data Pipelines Pipeline Comparison Insights

Partial : Complete +

Run pipeline



Filtering

Description:

Excludes observations from analysis based on specified criteria.

Class input filtering

Class filtering method:

Rare values (percentage) ▾

Percentage cutoff:

1

Maximum number of levels cutoff:

25

Keep missing class values

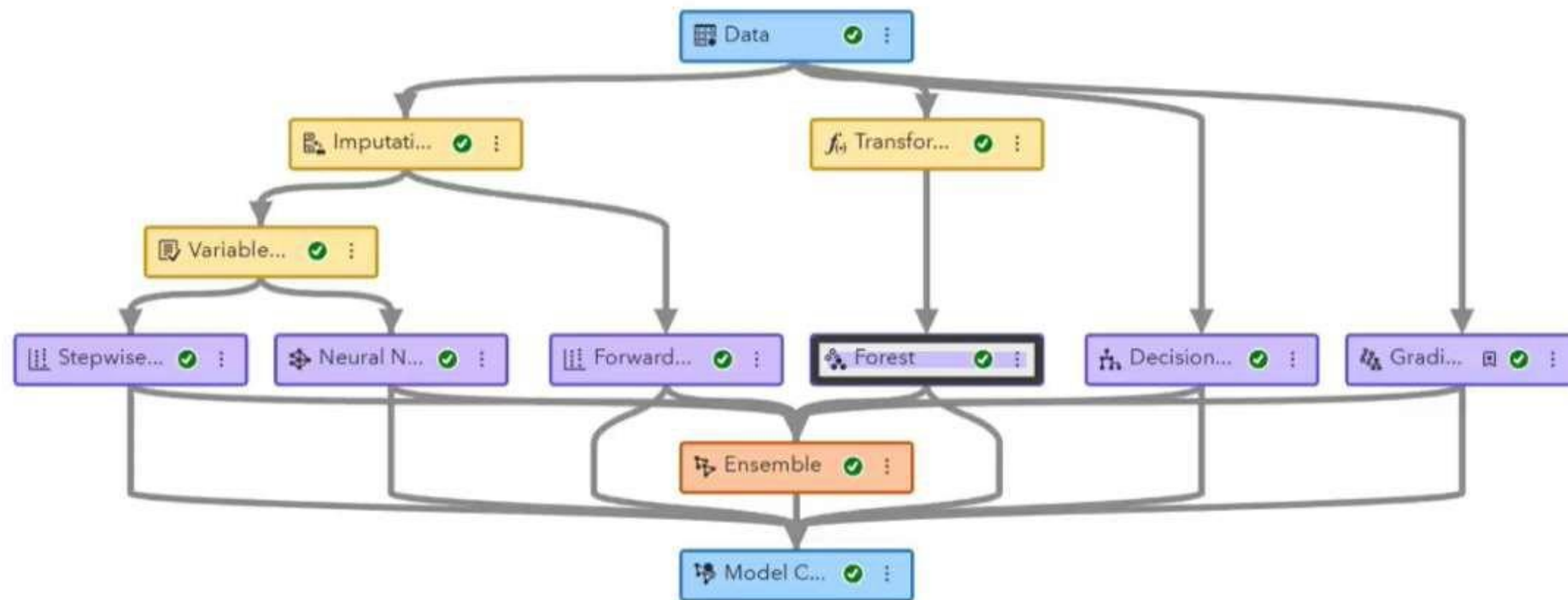
Interval input filtering

Interval filtering limits method:

Standard deviation from the ... ▾

Cutoff for standard deviations:

3



Number of trees:

15

Class target voting method:

Probability

> Tree-splitting Options

> Perform Autotuning



Use the exact percentile method for lift calculations

> Binary Classification Cutoff

Post-training Properties

Changing these properties will not retrain the model

< Projects

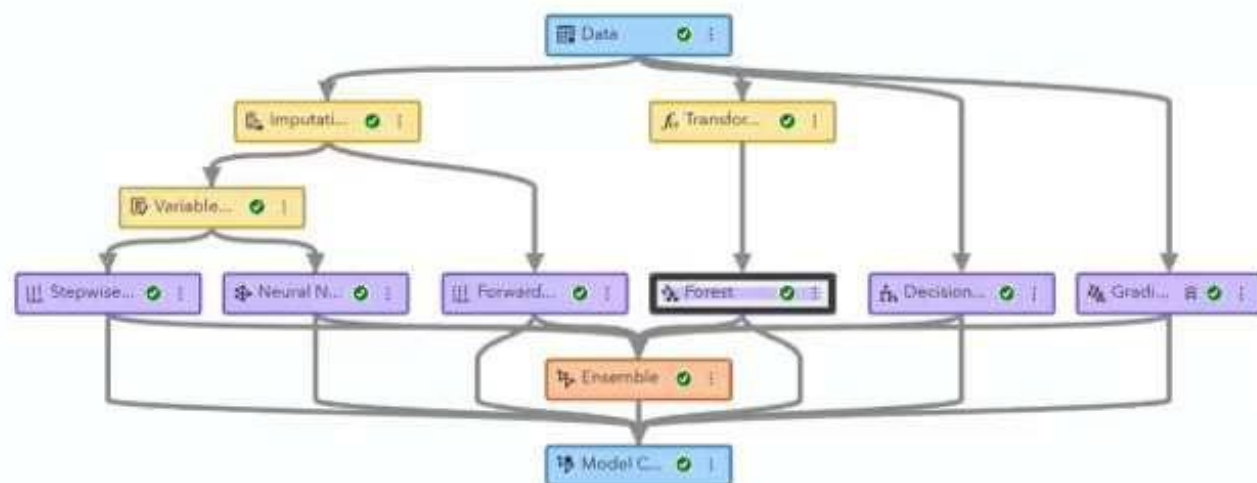
Home Loans

▶ ↺ 1 ⚙️ ⋮

Data Pipelines Pipeline Comparison Insights

Partial Complete ⋮ +

Run pipeline



Forest

Description:

Fits a forest model, which consists of multiple decision trees based on different samples

Number of trees:

15

Class target voting method:

Probability

> Tree-splitting Options

> Perform Autotuning

Use the exact percentile method for lift calculations

> Binary Classification Cutoff

Post-training Properties

Changing these properties will not retrain the model.

SAS Viya Copilot

+ x

positive rates for all possible classification thresholds. A model that provides a curve closer to the top-left corner of the plot indicates a better performance as it shows higher sensitivity and specificity values.

Moreover, since February 2025, the number of ROC cutoff values has been extended to include higher values, such as 5000, 10000, up to 500000, allowing for a more accurate ROC curve and ROC-based statistics, especially in the context of rare-event-based data.

References:

- [SVM Results :: SAS Viya: Machine Learning Node Reference](#)
- [Neural Network Results :: SAS Viya: Machine Learning Node Reference](#)
- [2025.02 \(February 2025\) :: What's New in Machine Learning](#)

Ask SAS Viya Copilot...

SAS Viya Copilot is an early feature and can make mistakes. Verify its outputs.



Developers

Love interacting with the model diagnostics to fine-tune it in real time.



Decision Makers

Love empowering everyone on the team to perform technical tasks.

**SAS Viya
Copilot in
Model Studio**



Your AI advantage:
Ready-made models
from SAS.

1

**Lightweight
Models**
complementing
your platform



2

**Proven
innovation** tuned
to your industry
specifications



3

**Fast to
operationalize**
with out-of-the-
box, purpose-built
AI models



NOW

AI-driven Entity Resolution

Document Analysis

**Payment Integrity for
Food Assistance**

Tax Compliance for Sales Tax

Medication Adherence Risk

**Strategic Supply Chain
Optimization**

NEXT

Worker Safety Monitoring

Preventative Maintenance
for Wind Turbines

Fraud Decisioning for Cards Models

Fraud Decisioning for Payments
Models

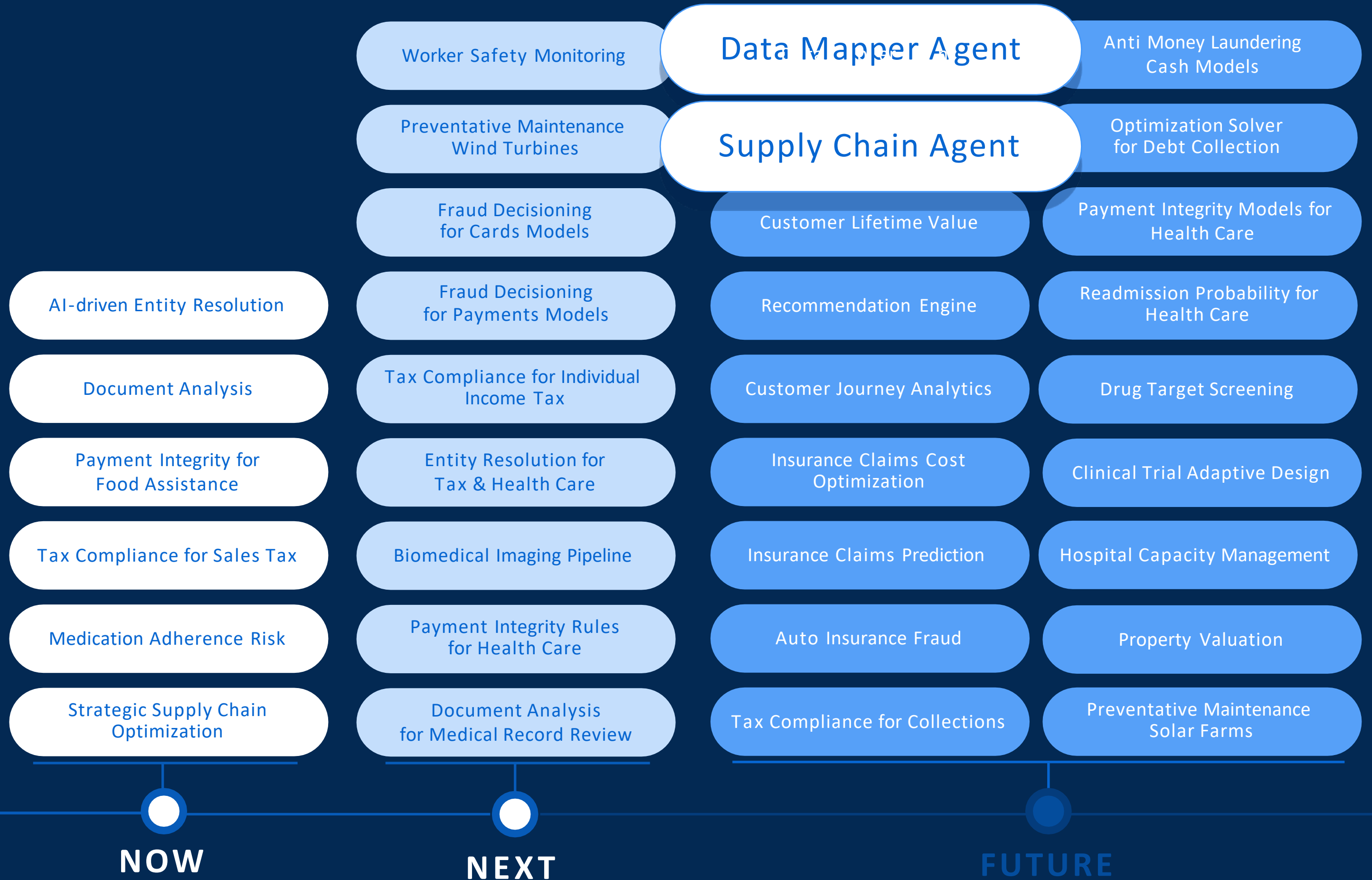
Tax Compliance for
Individual Tax Income

Entity Resolution for
Tax & Health Care

Biomedical Imaging Pipeline

Payment Integrity Rules
for Health Care

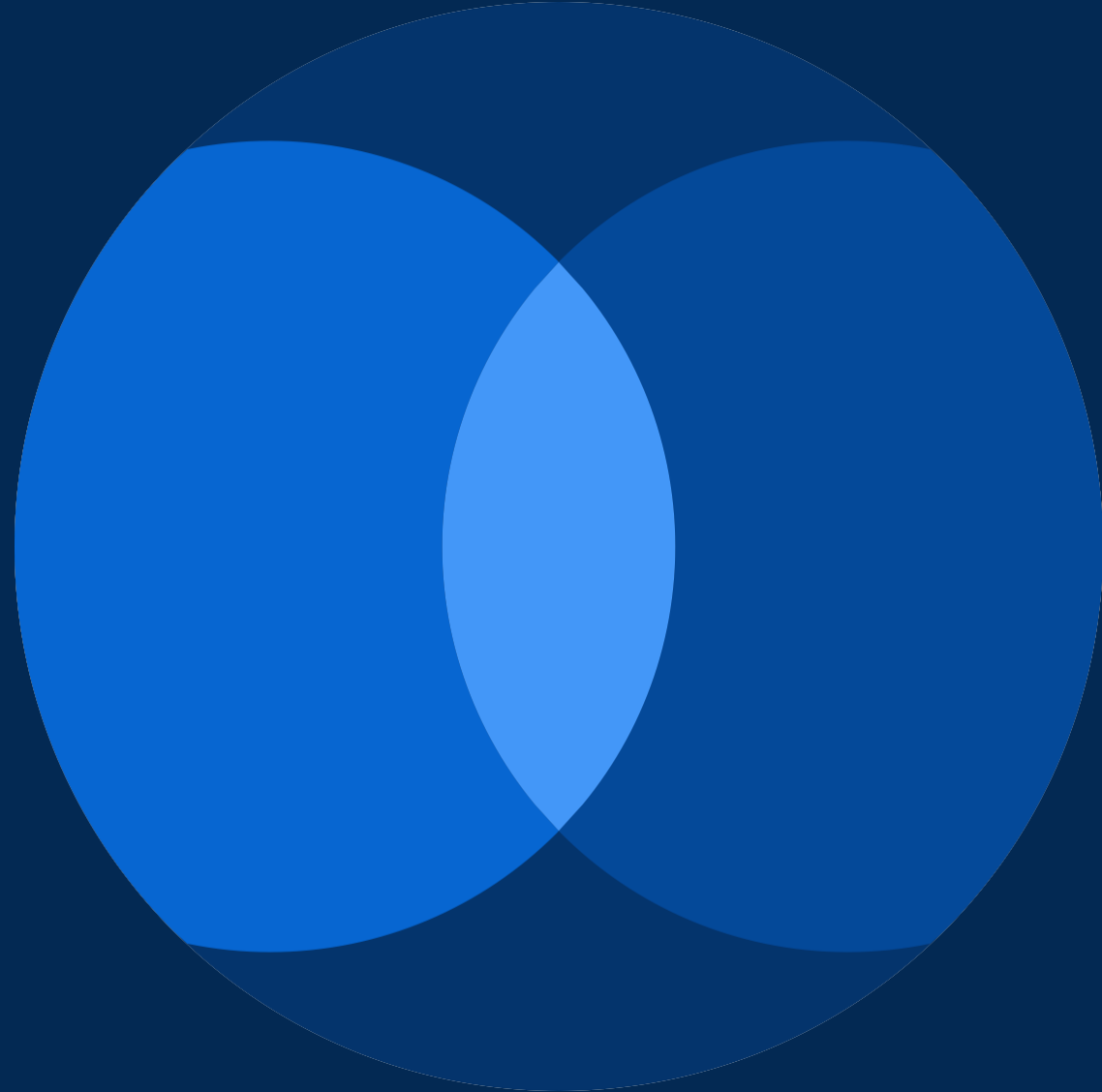
Document Analysis for







OUR
Experience



OUR
Work



OUR
Results

Industries:



Banking

SOLUTION
SAS®
Anti-Money
Laundering



Insurance

SOLUTION
SAS® Expected
Credit Loss



Health Care

SOLUTION
SAS® Health



Life Sciences

SOLUTION
SAS® Clinical
Repository



Manufacturing

SOLUTION
SAS® Asset
Performance



Public Sector

SOLUTION
SAS® Law
Enforcement
Intelligence

Industries:



Banking



Insurance



Health Care



Life Sciences



Manufacturing



Public Sector

Sales & Marketing

SOLUTION
SAS® CI360



Supply Chain

SOLUTION
SAS® Intelligent Planning



Finance

SOLUTION
SAS® Intelligent Performance Management



Fraud, Risk & Compliance

SOLUTION
SAS® Integrity



Industries:

 Banking	 Insurance	 Health Care	 Life Sciences	 Manufacturing	 Public Sector
--	--	--	--	--	--

Sales & Marketing	✓	✓	✓	✓	✓	✓
Supply Chain	✓	✓	✓	✓	✓	✓
Finance	✓	✓	✓	✓	✓	✓
Fraud, Risk & Compliance	✓	✓	✓	✓	✓	✓

SAS® Fraud Management



SAS® Event Stream Processing

SAS® Energy Forecasting

SAS® Production Quality Analytics

SAS® Clinical Acceleration Repository

SAS® Asset and Lia Management



SAS® Risk Modeling

SAS® Anti-Money Laundering

SAS® Customer Due Diligence



SAS® Field Quality Analytics



SAS® Real-Time Watchlist Screening



SAS® Law Enforcement Intelligence



Solutions



SAS® Health

SAS® Analytics for IoT

SAS® Production Quality Analytics



SAS® Insurance Analytics Architecture



SAS® Fraud Decisioning

SAS® Procurement Integrity

SAS® Grid Guardian AI



SAS® Intelligent Performance Management

SAS® Expected Credit Loss

SAS® Clinical Acceleration Repository

SAS® CI360

SAS® Model Risk Management



SAS® Mo Managi