

Single Day Event

The Tech Revolution: Future-Proofing
Biostatistical Programmers

Anette Jakobsen,
SAS

23 October 2025



Agenda



The role of the Statistical Programmer today

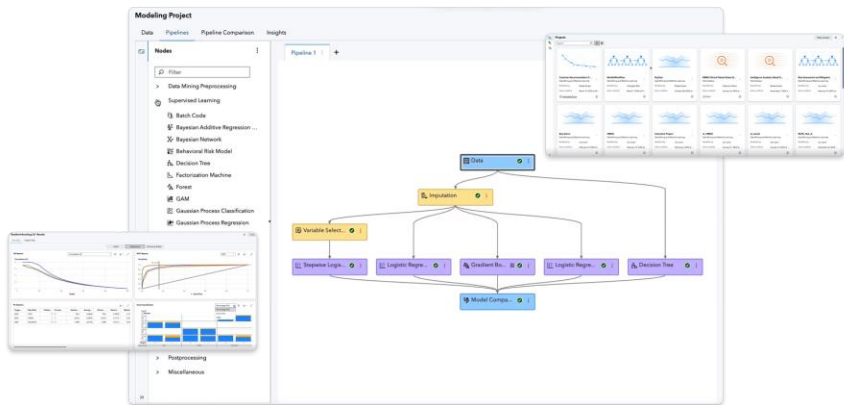
What is changing for Statistical Programmers

Statistical Programmer of tomorrow

How can Statistical Programmers keep up?



About me





Statistical Programmer Today

Write and Document code

Apply Standards (SDTM, CDISC, ADaM)

Domain expertise & communication

Double programming

Generate TFL's, reports

Present results



What is changing for Statistical Programmers

More clinical trials , shorter time, less people

Faster change in Standards

Multi lingual toolbox

Data visualization and storytelling

Regulatory focus on AI
Governance and explainability

More, diverse datasources

Agentic AI

Copilots





Statistical Programmer of Tomorrow

- Prompt engineering skills
- Validate Code generate by Copilots
- Domain expertise
- Communication of AI generated outputs
- AI literacy and AI ethics
- Fewer colleagues, more Clinical Trials
- Upskill continuously

How can Statistical Programmers keep up ?

“the right language for the right task”

Learn to use Copilots

Build AI literacy



Prompt Engineering skills

Network and Collaborate

Embrace change

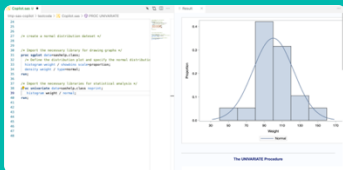
Participate in pilot projects



SAS and Generative AI (GenAI)



- **SAS Viya Copilots** to accelerate user productivity
- Conversationally query SAS Viya to increase user productivity and democratize analytics



example: SAS Code Generation



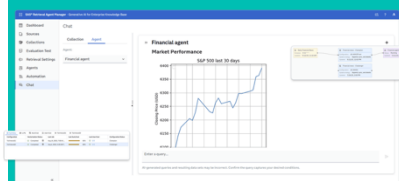
- **Specialized SAS Viya Copilots** to accelerate industry workflows and processes
- GenAI driven assistants to accelerate domain-specific workflows



example. Clinical Data Lifecycle



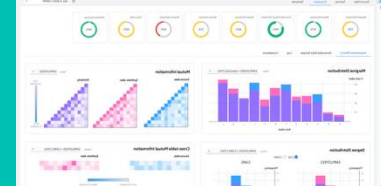
- **SAS Viya** to help build your LLM-based applications to unlock value in your proprietary business assets
- Automating complex, high-value agentic AI workflows



example. SAS Retrieval Agent Manager



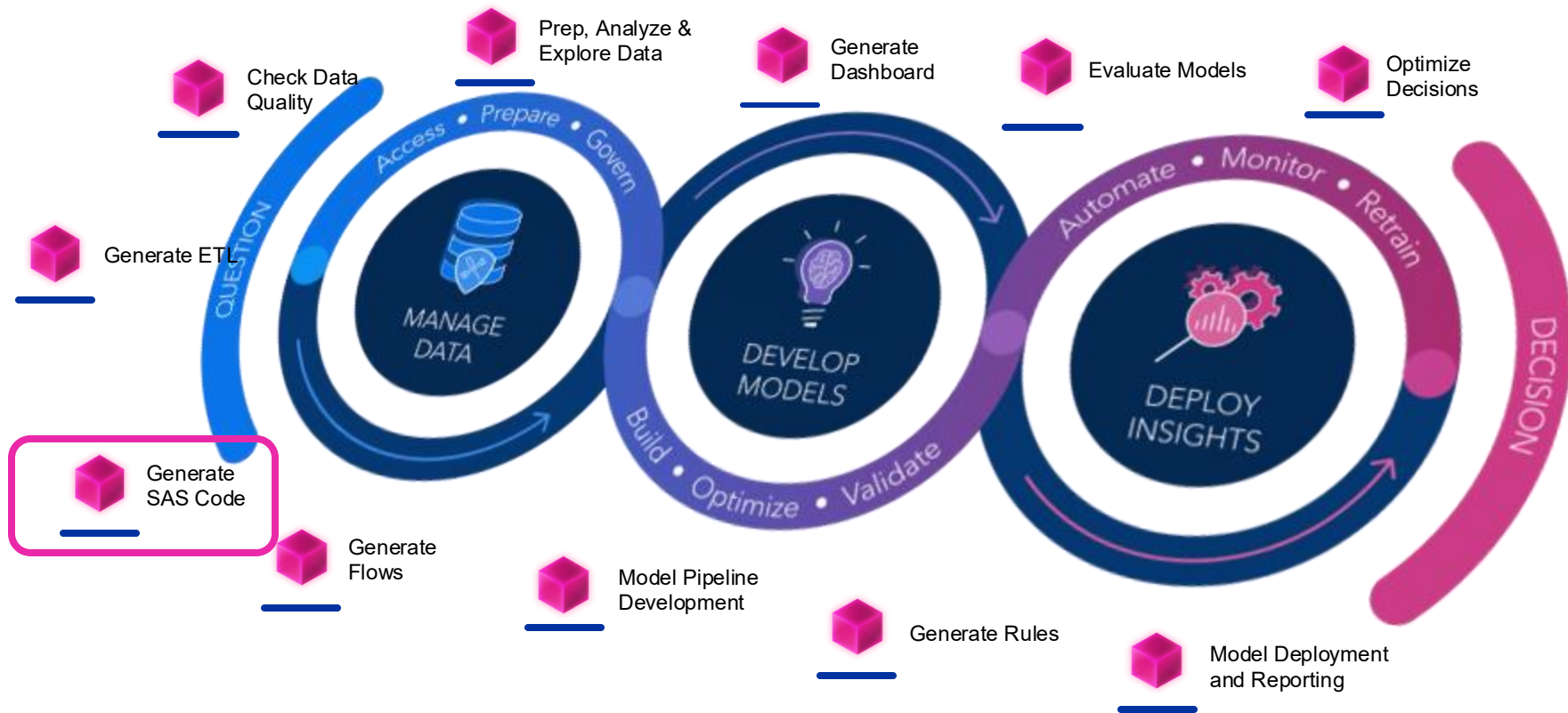
- **Synthetic data generation** – address gaps and limitations in real-world data
- API-first low-code/no-code synthetic data generation and validation experience



example. SAS Data Maker



Viya Copilots can support in daily tasks





Visual Studio | Marketplace

Visual Studio Code > Programming Languages > SAS Viya Copilot



SAS Viya Copilot

SAS Institute Inc. [sas.com](#) | 7 installs | ★★★★★ (0) | Free

Productivity booster for SAS programming

[Install](#) [Trouble Installing?](#)

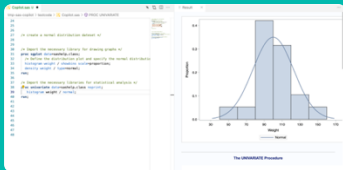


SAS and Generative AI (GenAI)



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example: SAS Code Generation



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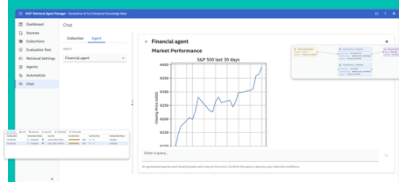


example: Clinical Data Lifecycle



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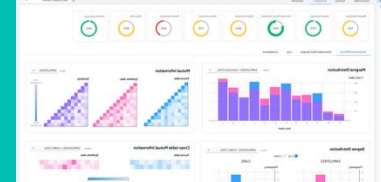


example: SAS Retrieval Agent Manager



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example: SAS Data Maker

SAS Clinical Trials Workflow Vision

Clinical Trial
Protocol



Data
Collection



eCRF / eSource

Data
Tabulation



SDTM

Statistical
Analysis



ADaM / ARDS /
TLFs

Clinical Study
Report



Raw data to SDTM format

SDTM to ADaM

ADaM Validation

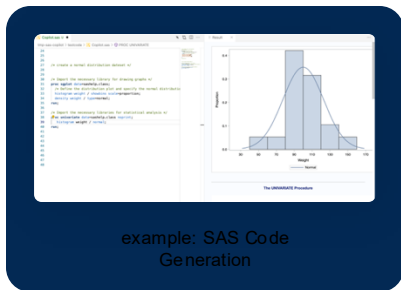
Creation of define.xml

Creation of TLFs

SAS and Generative AI (GenAI)



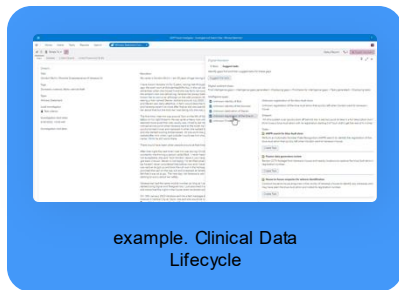
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example: SAS Code Generation



- **Specialized SAS Viya Copilots** to accelerate Life Science workflows and processes
- GenAI driven assistants to automate SDTM mapping, ADaM generation and TLF programming



example. Clinical Data Lifecycle



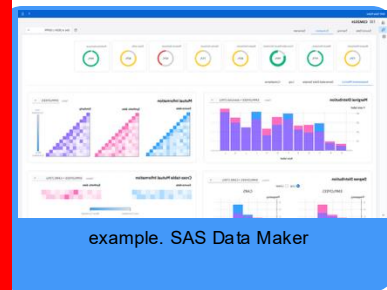
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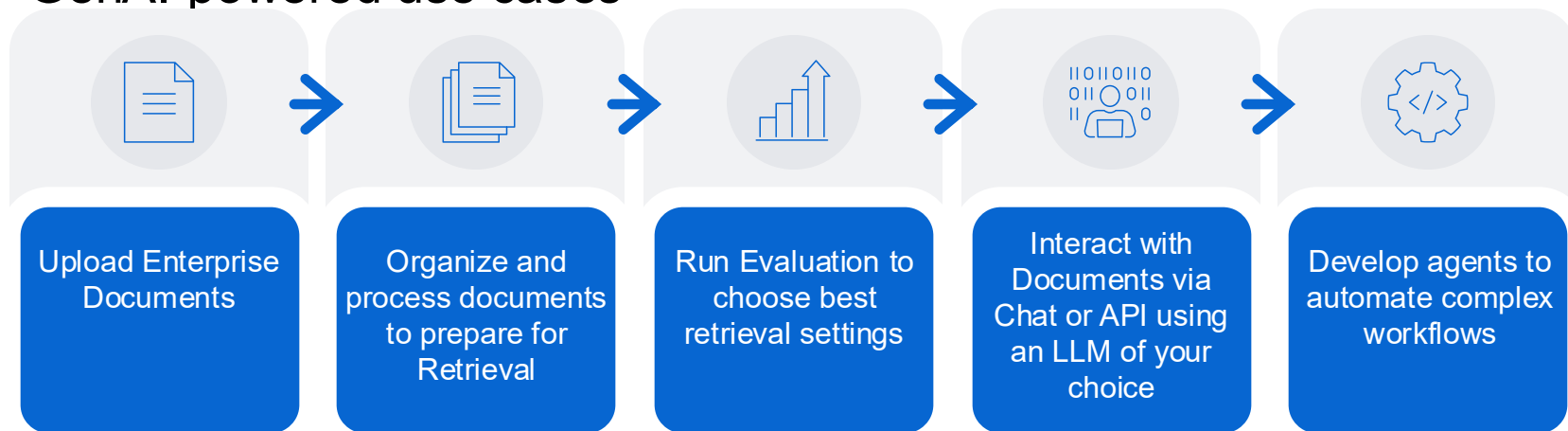


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example. SAS Data Maker

SAS Retrieval Agent Manager- Accelerate development of context-aware, GenAI-powered use cases



SAS and Generative AI (GenAI)



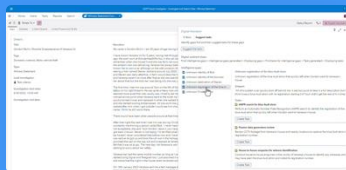
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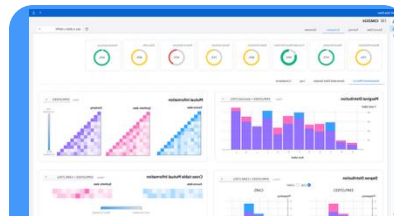
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example. SAS Data Maker

SAS Data Maker Capabilities

Address gaps
and limitations in
real-world data

Available in Q3
2025

1

Generate data on
demand using
algorithms.
Enable pre- and
post- processing
data



2

Replicate data
characteristics
including
statistical
properties and
distributions



3

Evaluate
synthetic data
quality with visual
evaluation
metrics





Future-proofing statistical programmers

- The role of statistical programmers is rapidly evolving
- New skills, technologies and ways of working are essential for the future
- Generative AI is transforming statistical programmers' productivity

- All can participate
- Participation is FREE
- Events are both physical and virtual
- Next **Life Science** Network meeting is **Thursday 5/2 2026 13.30 - 15.45**
- Sign up here: [link](#)



FANS

Knowledge Sharing & Networking

- FANS is a member-driven Nordic **SAS User Group**.
- Attending FANS allows you to network with your peers while enhancing your skills and knowledge about the latest SAS technology.
- With a wide variety of network groups, many areas are covered e.g., SAS Platform, Analytics & Data Science, Data Visualization, SAS Programming.
- There are Industry specific groups like Banking, Insurance and **Life Science** that addresses more tailored topics.

Thank you !

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