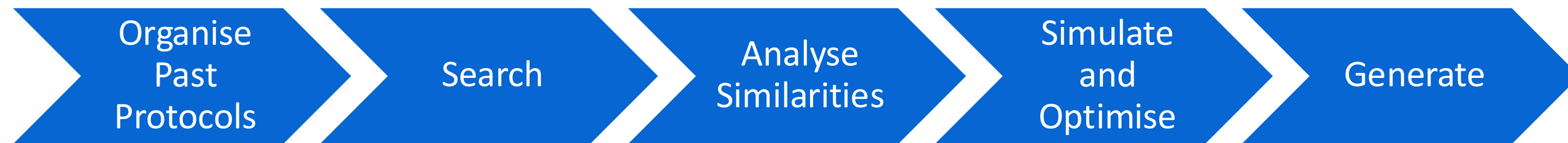
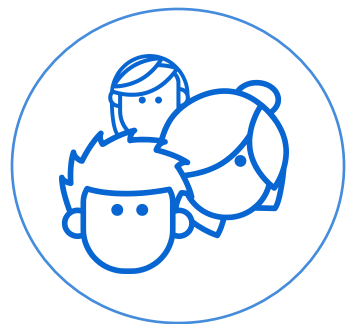


Revolutionizing Clinical Trials with Intelligent Protocol Automation

Zach Martin, Healthcare & Life Sciences
Sundaresh Sankaran, Global Technology Practice



The Protocol Generation journey



Protocol Review Board

Past Clinical Protocols



Past Study Data



Unified AI Platform

sas viya

Study
Objectives

Study Design

Enrollment

Safety

Enhanced and Structured Document Corpus

Retrieval Augmented Generation

SAS® Job Execution

Upload Additional Protocols

Upload an additional protocol from your local machine to the SAS AI-driven Clinical Protocol Generation Platform. You may then choose to ask questions about various sections of the protocol.

Choose a file to upload:

Choose File

no file selected

Question

Submit

Search Past Studies

SAS® Visual Analytics - Explore and Visualize

Protocol_Initial_Exploration

Opened reports (1)

All Protocols

Protocols_Structured

Structured Protocols

Study Characteristics

Filters: No selections

Provide Route of Administration

route

Provide Location of Trial

location

Select Trial Characteristics

☐ Comparator-controlled

☐ Modified double blind

☐ Multi-center

☐ Multi-country

☐ Observer-blind

☐ Open-label

Nbr of Trials

39

fileName	fileDate	fileType
NCT05568797_Protocol_SAS® Visual Analytics	Sunday, 15 September 2024, 12:36:54	txt
NCT05559476_Prot_000.txt	Sunday, 15 September 2024, 12:36:56	txt
NCT05144945_Prot_000.txt	Sunday, 15 September 2024, 12:36:56	txt
NCT05062759_Prot_000.txt	Sunday, 15 September 2024, 12:36:56	txt
NCT05050318_Prot_SAP_000.txt	Sunday, 15 September 2024, 12:36:54	txt
NCT05045144_Prot_000.txt	Sunday, 15 September 2024, 12:36:56	txt
NCT05044195_Prot_000.txt	Sunday, 15 September 2024, 12:36:55	txt
NCT05028361_Prot_003.txt	Sunday, 15 September 2024, 12:36:56	txt
NCT04622592_Prot_000.txt	Sunday, 15 September 2024, 12:36:56	txt
NCT04576702_Prot_000.txt	Sunday, 15 September 2024, 12:36:56	txt
NCT04551677_Prot_SAP_000.txt	Sunday, 15 September 2024, 12:36:56	txt
NCT04537234_Prot_000.txt	Sunday, 15 September 2024, 12:36:56	txt



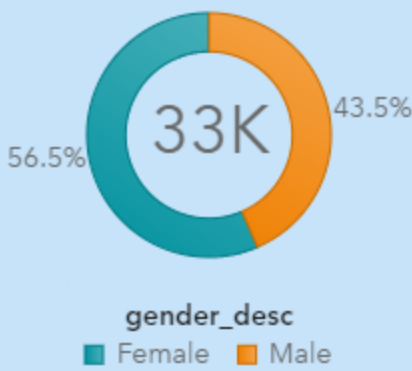
Compare Study Characteristics

Baseline Characteristics (Stringent Vs. Relaxed Vs. ML/SME) : Geographical Distribution (Stringent Vs. Relaxed Vs. ML/SME) Automated Explanation Logistic Regression Decision Tree Gradient Boosting Neural Network Model Comparison

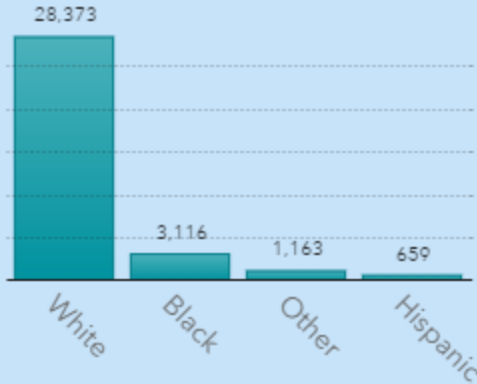
Filters: No selections

STRINGENT ELIGIBILITY CRITERIA (per Study Protocol IE criteria)

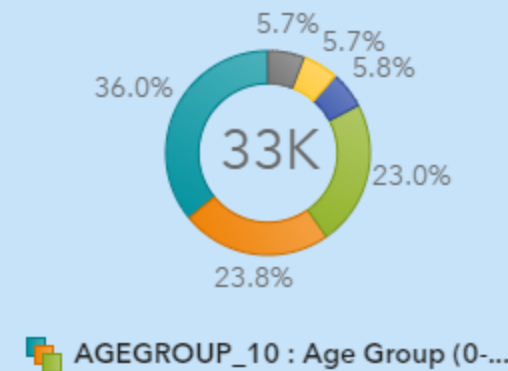
Gender - S



Race - S

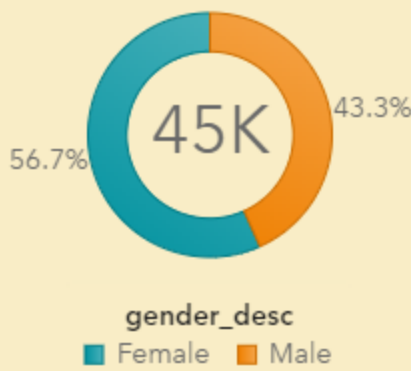


Age Groups - S

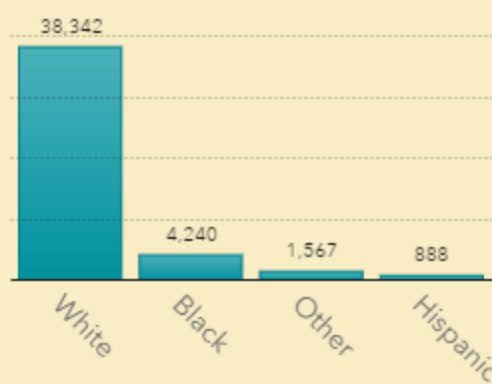


RELAXED ELIGIBILITY CRITERIA (per SME - dropped CHEST PAIN excl. criteria)

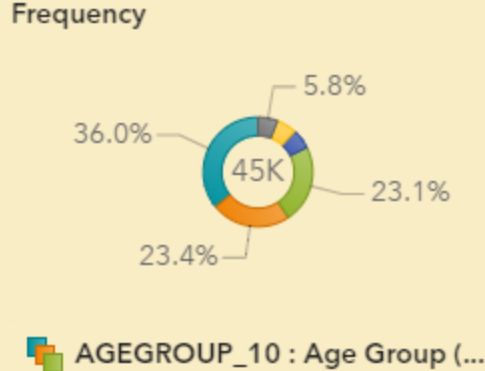
Gender - R



Race - R

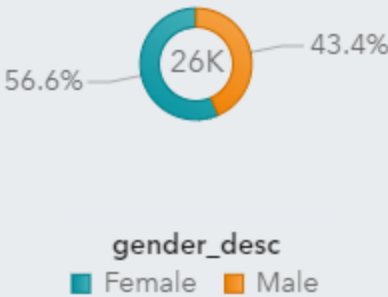


Age Groups - R

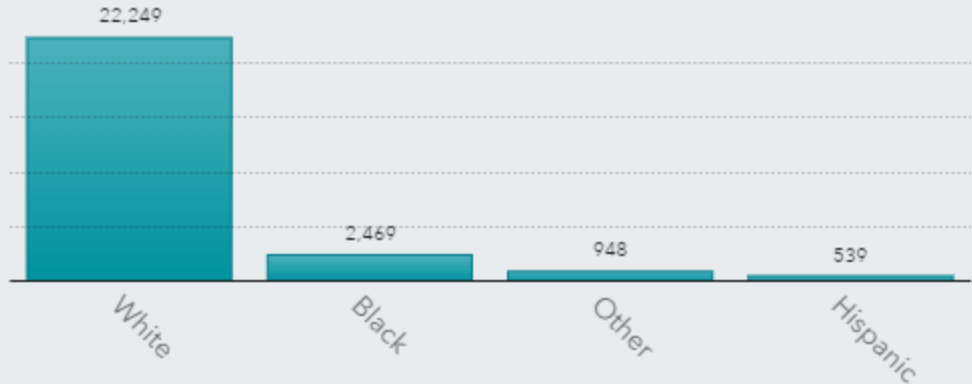


ML & SME driven ELIGIBILITY CRITERIA

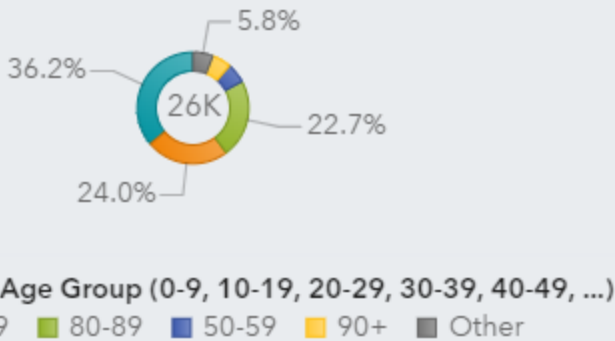
Gender - ML & SME



Race - ML & SME



Age Groups - ML & SME



Protocol Draft Generation

SAS integrates with LLMs to help generate draft protocols

Generate

SAS® Clinical Trial Protocol Generator

Enter a description of your clinical trial, including as much information as possible.

Protocol Summary:

This is a randomized, open-label, multicenter, prospective study to compare the efficacy and

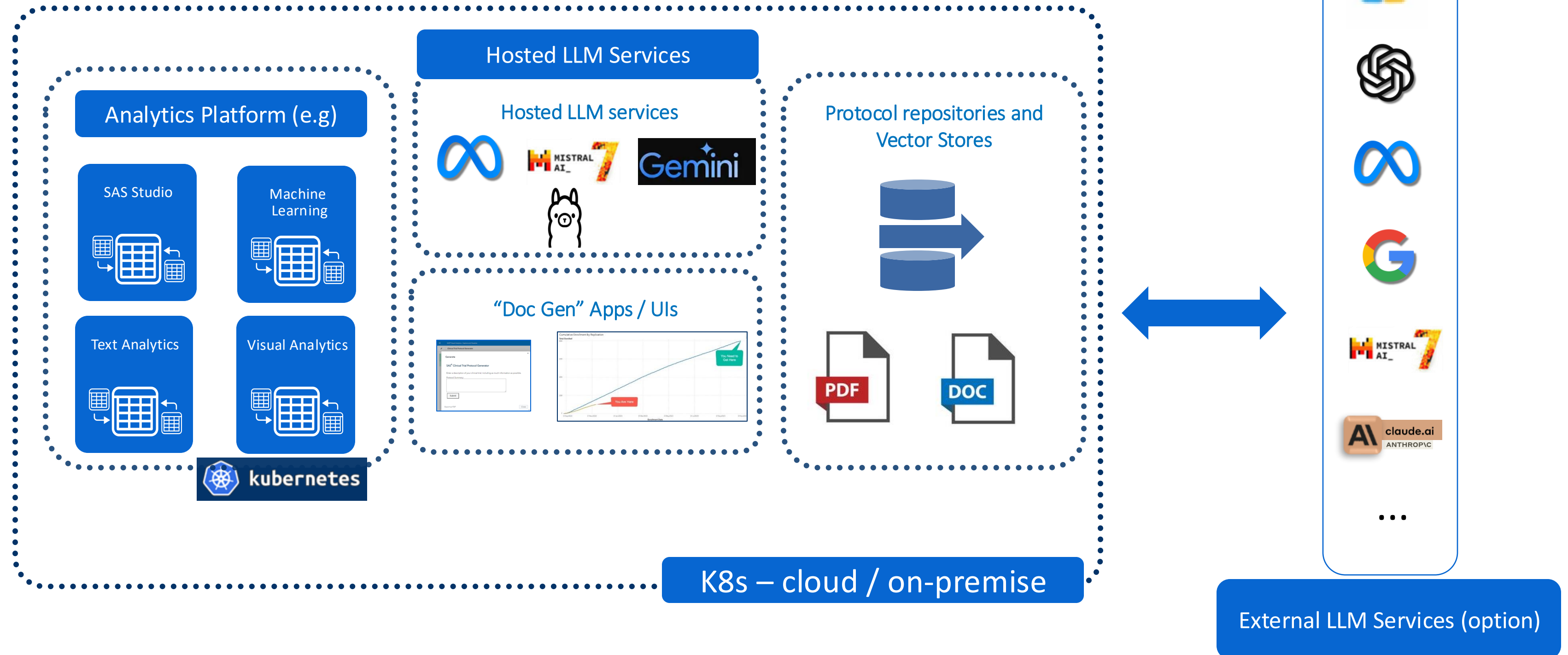
Submit

Export as PDF

Close

AI-enhanced Clinical Protocol Development

Solution Components



Note: Icons representing LLMs are purely indicative and not recommendations

Thank you Questions?

Sundaresk.Sankaran@sas.com / Sherrine.Eid@sas.com

