SAS HACKATHON 2024

Inspiration and Innovation in Action

Discover the real-world challenges tackled in 2024.

So much more
than a competition.

SAS HACKATHON

Great ideas can come from anyone, anywhere. Amazing things can happen when data scientists and tech-savvy people from different regions with diverse backgrounds and skill levels collaborate.

For the past five years, the SAS Hackathon has done that. Some of the most brilliant minds have teamed up to invent novel solutions to business challenges and humanitarian causes. Many have changed the way we do business – and even saved lives.

What makes the event unique? Traditional in-person hackathons gather coders for a few days. But the SAS Hackathon? It's different – it's more than a competition. How so? We think of it as a team sport. Participants collaborate online for a month, allowing ideas to be nurtured and developed into real-world solutions.

We say, "Roll up your sleeves!" Get hands-on with SAS® Viya® and experience the speed, performance and productivity of the AI and analytics platform with seamless integration with open source. Take advantage of learning resources and unparalleled guidance from experts at no cost. It's a team sport for us, too.

Our grassroots beginning as a regional event in the Nordics has now grown into an annual global event. The SAS Hackathon attracts hundreds of participants — from data scientists and developers to business analysts and marketers and newcomers to analytics.

We've seen innovation at its best, with breakthrough approaches that extend beyond the hackathon, models and technologies entering the marketplace since solutions are the team's intellectual property and great passion for problem-solving.

In 2024, there was robust interest in the event — more than 1,700 people from 71 countries applied to join the hack. 140 teams qualified to start, including 40 teams in the student track. More than 250 organizations represented the 100 teams in the many industry tracks. 73% completed the hack in one month. The contributions were immense, and we believe everyone is a winner! We also want to thank our partners Intel and Microsoft, who love innovation like SAS.

We hope this year's impressive solutions inspire you.

Peter Lundquist and Einar Halvorsen
SAS Hackathon Office

> To learn more, click the icon next to each team's business case and watch them tell their story.

BANKING

Critical Thinking Crew
Japan

Revolutionizing financial analysis
AI and gamified learning decision making

Banamex Risk360
Mexico

Predicting next product to market needs
Optimize market efforts and product development to align with customer real-time needs

GLOBAL WINNER
People's Choice Award

Impostor
Indonesia

Bridging gaps with digital banking
Connecting communities with agent networks

BiBanreservas
Dominican Republic

Bridging the financial gap
Building trust and accessibility in financial service

ISX4Good
UK

Mitigating procurement fraud risks
Early irregularity identification with advanced analytics

Comture Team
Japan

Offering customers AI-driven incentives
Enhancing banking with AI and human collaboration

Nexa Analytics Workers
Colombia

Improving social media interactions with AI
Enhancing customer experience with AI-driven messaging

Consudata
Mexico

Real-time analytics for smarter banking
Maximizing returns with intelligent optimization

Raffles Vietnam
Vietnam

Simplifying policy complexity

Streamlining bank approval processes with AI

Syntax Error
Singapore

Transforming bank operations

Minimizing wait times for better customer satisfaction

Scrappy Number 2
Canada

Empowering consumers with efficient credit processes

Reducing application times with data-driven approaches

Team Wells
US

Competing with global giants using analytics

Driving consumer behavior to support local businesses

ENERGY

Booth & Associates
US and Canada

Load planning for every scenario

AI models flag areas to address to help ensure flexibility and augment performance

Climate Change and Challenges to Nuclear Plant Safety – IAEA
US and Italy

Identifying weather trends and their effect on nuclear plants

AI analyzes weather data to estimate likely occurrences for more effective safety assessments

Cleaner Commutes
Netherlands

Reducing CO2 from commuting for a healthier planet

Tailoring communing strategies to meet reduction goals

Cali Can
US and Canada

Assessing natural disasters' effect on nuclear safety

Identifying trends to assess risk to nuclear plants

HEALTH CARE & LIFE SCIENCES

Guardian Owl Project
US

Using chatbots to help expectant mothers to mitigate risks

AI agents can help reduce maternal mortality, assisting mothers to identify warning signs of complications

GLOBAL WINNER
Health Care

GLOBAL WINNER
Emerging Talent

NEAR Exergame
Malaysia

Making rehab more engaging through real-time recovery information

Personalizing rehabilitation solutions for stroke patients using gaming features

Hackateers
Germany

Automatic processing of data in assay development

Empowering lab workers to provide their own statistical analyses to address regulatory data requirements

REGIONAL WINNER
Asia Pacific

Nupeak Neurons
India

Spotting manufacturing defects with computer vision

Automating a visual inspection of ampoules and vials to improve quality inspections

Health Hackers
Brazil

Occupational safety improvements for electrical workers through better assessment

Analyzing safety reporting to identify and verify the most effective approaches

Nupeak Pioneers
India

Pinpoint optimal output and enhance manufacturing procedures

Determining the best variables for the production of safe and effective medications

Ratio Team
Italy

Using GenAI for medical literature searches

Finding and ranking PubMed results using LLMs

Pharmalyze
India

Analyzing prostate cancer data to improve survival

Finding the variables that lead to better prognoses

Techno4
Singapore

Fine tuning telehealth experience with AI modeling

Optimize appointment scheduling algorithms, workload distribution and tailor interactions based on patient preferences

Radiomics
UK

Bridging the gap between data science and medical students

Using SAS for educational purposes about cancer research

INSURANCE

Astrolavos
Italy

Advanced banking for a stronger local economy

Empowering communities through consumer choices

Retro Analysts
India

Adapting to climate change in agriculture

Incorporating risk into crop insurance helps predict losses

GenRetention Rangers
Slovakia

Protecting futures with life insurance

Ensuring value with predictive analytics helps retain policyholders

GLOBAL WINNER
Insurance

GLOBAL WINNER
IoT

REGIONAL WINNER
Americas

StaSASticians
US

AI-enabled heat stroke prevention

Leveraging smart helmets and advanced analytics to enhance safety, productivity and compliance while reducing health care costs

Hail Raiders
Canada

Staying ahead of the storm with predictive analytics

Predict hail damage before it strikes improves insurance claim processes

ÖRAG's Insightful Insurers
Germany

Navigating legal complexity every step of the way

Personalizing insurance protection with advanced customer segmentation

Swedbank Insurance
Sweden

Deepening customer insights

Boosting productivity by 200% with a data-driven approach

VHV
Germany

Refining actuarial models for better outcomes

Leveraging cutting-edge technology to refine risk models and drive informed decision-making

PZU Alpha Team
Poland

Delivering swift relief after a natural disaster

Automating insurance claims for rapid response helps flood victims rebuild

IoT

Benjamin & Joseph (Benjo)
Singapore

Cutting health care costs with AI

Automating medical billing for efficient audits

Ecovanti
Belgium

Empowering sustainable choices for greener e-commerce

Using digital twins to evaluate the environmental footprint of products

Cleaner Commutes
Netherlands

Reducing CO2 from commuting for a healthier planet

Tailoring communing strategies to meet reduction goals

Inspirational Modulators
India

Breaking down barriers to communication

Creating inclusive workplaces with real-time sign language translation

Code Blossoms
Australia

AI-Driven health integrates global medicine

Integrating AI with traditional Chinese and Western medicine for personalized patient care

StaSASticians
US

AI-enabled heat stroke prevention

Leveraging smart helmets and advanced analytics to enhance safety, productivity and compliance while reducing health care costs

Data Smiths
India

Empowering manufacturers to reach peak productivity

Maximizing uptime and machine performance with predictive maintenance

IoT

Team Horé
Indonesia

AI and social sentiment analysis enhance government-citizen relationships

Monitoring public perception on social media using AI for improved government-citizen relationships

Two Tech Innov
Mexico

Transforming dairy farming with advanced analytics and IoT

Optimizing milk production with digital twins and real-time data

Team Notilyze & HAI
Netherlands

Reducing carbon footprint in whey processing

Utilizing SAS Viya to analyze factory data and develop smart business rules for sustainable operations and through optimized waste heat recovery

TELECOM & MEDIA

GLOBAL WINNER
Telecom & Media

Advanced Analytics TEF Vivo
Brazil

Dialing up revenue in telecom with analytics and GenAI

Automating processes improves efficiency in mobile line segment

PUBLIC SECTOR

GLOBAL WINNER
Data for Good

AbuSearch
UK

Providing cutting-edge child protection with AI and analytics

Using text analytics and natural language processes to help uncover abuse and exploitation

GLOBAL WINNER
Channel Readiness

GLOBAL WINNER
Models

GLOBAL WINNER
Trustworthy AI

REGIONAL WINNER
EMEA

Butterflies
UK

Assessing data sources for their reliability and credibility

Checking the trustworthiness of online data sources

GLOBAL WINNER
Computer Vision

Avalanche
Turkey

Identifying potentials for violence with AI

Spotting social media calls to violence for grassroots attacks worldwide

Code the Dream
US

Analyzing the underutilization of SNAP benefits with demographic and geographic data

Introducing a chatbot to help public benefits navigators ask questions surrounding the application process

BC_Æ_Team
Canada

Determining the effectiveness of housing programs in Canada

Identifying the factors that lead to more effective housing for the homeless

CodeWrappers
India

Detecting 38 types of crop disease using machine learning

Predicting diseases and providing real-time information on potential remedies

Code Blossoms
Australia

AI-Driven health integrates global medicine

Integrating AI with traditional Chinese and Western medicine for personalized patient care

PUBLIC SECTOR

Collaborators Bike the World
Germany

Changing the way rental bikes are distributed and utilized

Enhancing urban mobility and creating smarter, more efficient cities

Esse Quam Videri
US

Creating information transparency to foster equity in farming communities

Paving the way to more equitable farming policies

GLOBAL WINNER
Natural Language Processing

GLOBAL WINNER
Visualization

Council Insights Heidelberg
Germany

Improving the transparency and accessibility of Heidelberg Municipal Council

Quickly and easily understand the resolutions and activities of the local council

GLOBAL WINNER
People's Choice

EY for Better World
Canada

Improving Canadian health care with analytics and AI

Ensuring healthy lives and improving health for all at every age

GLOBAL WINNER
People's Choice

INNOVA-TSN
Colombia, Mexico & Spain

Using text data to identify high poverty zones

Using large language models on the web and social sites to identify the most vulnerable communities

Data Troopers
Colombia

Assessing the socioeconomic and educational factors that lead to student success

Identifying behavior factors and other variables that lead to better outcomes

Laboratorio Vivo
Mexico & Venezuela

Farmers find resiliency amid climate change challenges

Temperature shifts disrupt nutrient balance in global farmlands

NHIS FDS
South Korea

Safeguarding South Korea's long-term care insurance

Enhancing fraud detection in South Korea's long-term care insurance with RFID technology

PS2G
US

Enhancing out-of-school programs for student growth

Unlocking student potential and enhancing out-of-school programs for growth

GLOBAL WINNER
Public Sector

Team Only Planet 2120
Benelux

Future-proofing the Dutch Delta with data and analytics

A nature-driven vision for future-proofing the Dutch Delta

PW Consulting
Benelux

Improving unsafe roads in the Netherlands

Dutch infrastructure aims for zero road fatalities amid dense traffic

Team OST
US

Tackling the opiate crisis with data-driven insights

Combating the opiate crisis in Pennsylvania with data-driven decisions

Team Horé
Indonesia

AI and social sentiment analysis enhance government-citizen relationships

Monitoring public perception on social media using AI for improved government-citizen relationships

UNLV
US

From data to delight in student experiences

Enhancing student experiences with sentiment analysis

RETAIL, CONSUMER GOODS & MANUFACTURING

Dimanex
Netherlands

Transforming food supply chains from the warehouse to the store
Using predictive analytics to optimize and forecast demands

AI Hackers
US

Innovating review analysis to improve customer experiences
Understanding the impact of ratings and feedback on businesses

Get'mo
Mexico

Reducing shopping dilemmas with dynamic real-time offers
Helping consumers spend less time making purchasing decisions with personalization

Billion Rows
South Africa

Enhancing consumer satisfaction with data-driven decisions
Meeting daily demands with inventory analysis and predictive modeling

OREA
Mexico

Attracting and retaining guests with data-driven marketing
Creating guest loyalty with personalized communication

GLOBAL WINNER
Forecasting

Datacurate
India

Serving up success with inventory planning in food services
Forecasting demand with accuracy for ingredient management

POI
US & India

Understanding how holidays and heatwaves impact shopping behavior
Analyzing trends to predict retail sales and forecast buyer needs

Smart Harvest
Guatemala & Taiwan

Harvesting efficiency with real-time data for sugarcane farming

Planning smart, optimizing resources and predicting conditions enhances yields

Team Notilyze & HAI
Netherlands

Processing whey sustainably for a greener dairy

Using resources efficiently leads to eco-friendly production

GLOBAL WINNER
Retail, Consumer Goods & Manufacturing

Supply Chain Research Cooperative NCSU
US

Ensuring fair labor and safety in manufacturing

Creating ethical supply chains and transparent operations builds consumer trust

TMG
Portugal

Predicting the perfect finish for automotive excellence

Analyzing factors influencing lacquer gloss quality with synthetic data

STUDENT

Data-driven climate policy for vulnerable populations

Supporting vulnerable populations with data-driven climate policy

Astro UTB
Columbia

Clarkulators
Philippines

EmpowerHer
Singapore

Los Tonotos
Columbia

ORSOL
US

GLOBAL WINNER
Student: Data for Good

Too Good To Be True (TGTBT)
Philippines

Mitigating college admission bias with data-driven insights

Achieving fairer college admission outcomes

Bitwise
Columbia
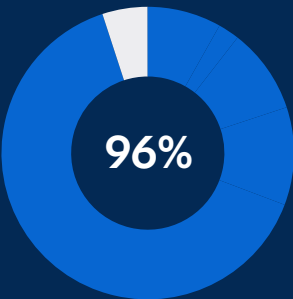
Data Ninjas
UK

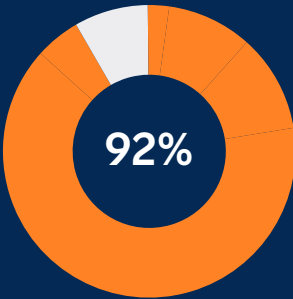**GLOBAL WINNER**
Student: Ethical Data Analysis
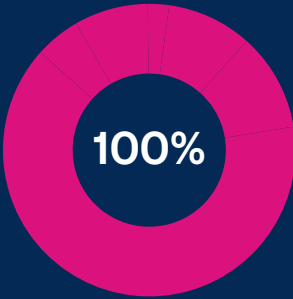
HotSirapBandung
Malaysia

TheItalianJob
Italy

AN EXTRAORDINARY EXPERIENCE

96%

of participants would recommend
the SAS® Viya® Platform

92%

would participate in
future SAS Hackathons

100%

would recommend
SAS Hackathon to others

HACKERS SAY ...

Describing the SAS Hackathon in one word

Challenging	Inspirational	Awesome	Interesting
Collaboration	Knowledge	Transformative	Fun
Innovative	Learning	Immersive	Insightful
Exciting	Meaningful	Thought Provoking	Thrilling
Impactful	Explorative	Engaging	Enlightening

2024 CHAMPIONS

INDUSTRY

BANKING
Raffles Vietnam
Vietnam

ENERGY
Climate Change and Challenges to Nuclear Plant Safety – IAEA
US & Italy

HEALTH CARE
NEAR Exergame
Malaysia

INSURANCE
StaSASticians
US

IoT CROSS INDUSTRY
StaSASticians
US

LIFE SCIENCES
Ratio Team
Italy

PUBLIC SECTOR
Team Only Planet 2120
Netherlands

RETAIL, CONSUMER GOODS & MANUFACTURING
Supply Chain Research Cooperative NCSU
US

TELECOM & MEDIA
Advanced Analytics TEF Vivo
Brazil

STUDENT

STUDENT: DATA FOR GOOD
ORSOL
US

STUDENT: ETHICAL DATA ANALYSIS
Data Ninjas
UK

PEOPLE'S CHOICE

INNOVA-TSN
Colombia, Mexico & Spain

Impostor
Indonesia

EY for Better World
Canada

TECHNOLOGY

COMPUTER VISION
Avalanche
Turkey

DECISIONING
Benjamin & Joseph (Benjo)
Singapore

FORECASTING
Datacurate
India

MODELS
Butterflies
UK

NATURAL LANGUAGE PROCESSING (NLP)
Council Insights Heidelberg
Germany

VISUALIZATION
Council Insights Heidelberg
Germany

SPECIALTY

CHANNEL READINESS
Butterflies
UK

DATA FOR GOOD
AbuSearch
UK

EMERGING TALENT
NEAR Exergame
Malaysia

SUSTAINABILITY
Cleaner Commutes
Netherlands

TRUSTWORTHY AI
Butterflies
UK

REGIONAL

AMERICAS
StaSASticians
US

ASIA PACIFIC
Nupeak Neurons
India

EMEA
Butterflies
UK

2023 CHAMPIONS

See the use cases from the 2023 SAS Hackathon!

INDUSTRY

BANKING
Santander
US

ENERGY
The Insight-O-Meters
US

HEALTH CARE & LIFE SCIENCES
AI Generated Synthetic Data in Healthcare
Netherlands

INSURANCE
StaSASticians
US

MANUFACTURING
Team Notilyze
Netherlands

IoT
REDE
Kazakhstan

PUBLIC SECTOR
JaWaRA
Indonesia

RETAIL & CONSUMER GOODS
Fair Factories Clearinghouse
US

TELECOM & MEDIA
ML Jokers 2.2
Serbia

TECHNOLOGY

APP FACTORY CLOUD
The Insight-O-Meters
US

COMPUTER VISION
Critical Thinking Crew
Japan

DECISIONING
Linktera4Insurance
Turkey

FORECASTING
algoWatt
Italy & US

MACHINE LEARNING
JaWaRA
Indonesia

NATURAL LANGUAGE PROCESSING (NLP)
EPAM & Linktera4Good
Turkey

VISUAL ANALYTICS
Butterflies
UK

SPECIALTY

CHANNEL READINESS
Fair Factories Clearinghouse
US

SUSTAINABILITY
The Insight-O-Meters
US

TRUSTWORTHY AI
IN STEP
Portugal

STUDENT

STUDENT & YOUNG TALENT
(⌐■_■) [Sunglasses]
Poland

PEOPLE'S CHOICE

Mobility Insights Heidelberg
Germany

REGIONAL

AMERICAS
End Forced Labor
US

ASIA PACIFIC
JaWaRA
Indonesia

EMEA
EPAM & Linktera4Good
Turkey

problem.

hack.

solve.

innovate.

SAS
HACKATHON