

**SOLUTION TITLE FOR SAS HACKATHON  
'EMPLOYEES ETHEREAL SHIELD'**

**BY  
INSPIRA ENTERPRISE INDIA LTD TEAM -**

**ANKIOS**

The logo for ANKIOS features the word "ANKIOS" in a bold, sans-serif font. The letter "O" is replaced by a stylized globe icon composed of a grid of squares in shades of grey and yellow. The letter "I" is also stylized, appearing as a vertical bar with a yellow-to-white gradient.

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# ABOUT INSPIRA ENTERPRISE

Inspira is a Global IT Digital Transformation solution provider with deep expertise across disruptive technologies such as Big Data, Analytics, Cloud, Blockchain, Next Gen Cybersecurity and Data Center.

13+



Years of operating experience

500+



Clients

35+



OEM Partners



**CMMISVC / 5**<sup>SM</sup>  
Exp. 2022-12-02 / Appraisal #5347



**CMMIDEV / 5**<sup>SM</sup>  
Exp. 2022-12-02 / Appraisal #5347

1000+



Employees

50+



Digital Tech.  
Professionals

5



CSAT Score



ISO/IEC 20000-1:2011



ISO/IEC 27001:2013



22301:2012

## Market Verticals Addressed



BFSI



PSU



Enterprise



Healthcare



Government & Smart Cities



IT/ITeS

# MAKING A MARK, THE WORLD OVER



Present across metros with teams in all major state capitals and Tier 1 cities in India

State of the art centralized SOC & NOC in Mumbai, India

Ever expanding footprint - now with a presence in Sri Lanka, Singapore, Indonesia, Philippines, Dubai, Abu Dhabi, Kenya, Ethiopia, USA

# ABOUT BIG DATA AND ANALYTICS SERVICES

## Data Strategy Advisory and Implementations Services

Managed Analytics Services Program - Run Workshops with Customers to Identify Use case and Implement the same.

## Platform Management services

Supply implement and Sustenance of Key OEM Platforms such as SAS / Cloudera / Azure / GCP /

## Digital Experience Solution

Helping Customer take the first step towards Digital Transformation using new age solutions of Aveva , Liferay etc.

## Domain Based Advisory and Delivery Assurance

Inhouse expertise with Domain (BFSI / Oil and Gas/ Mining / Solar / Energy ) and Technology Background PMO

## Industry Specific Use cases

Banking , Insurance, Power Energy Utility , Oil and Gas, Mining, Manufacturing,

## SAS / Splunk Managed Services

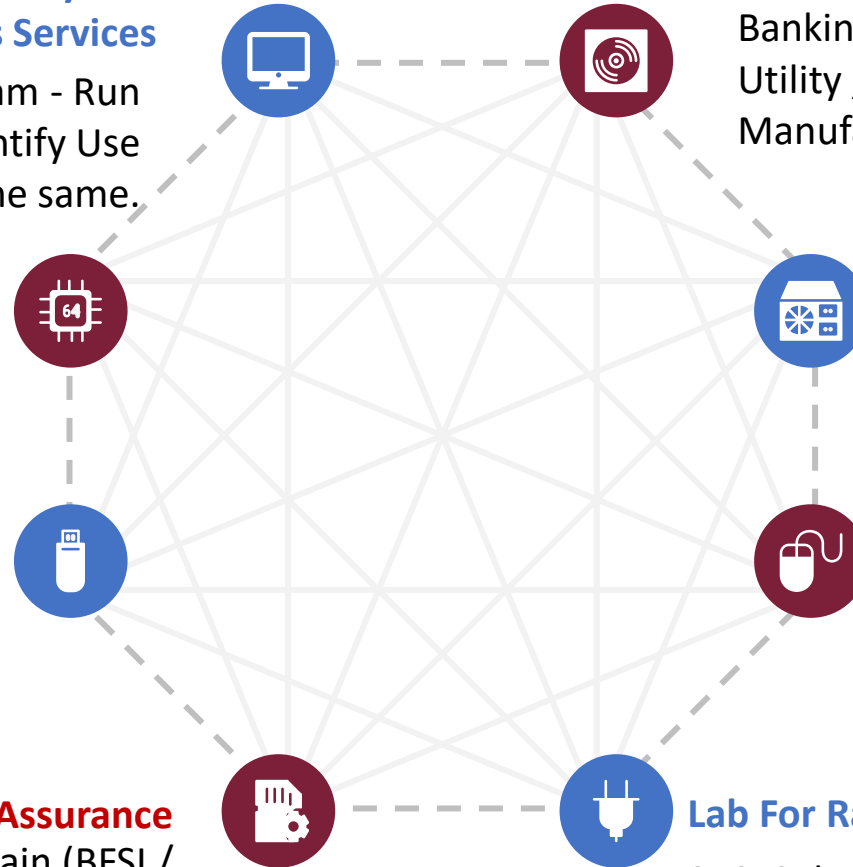
Focused Workforce Bench for use case and Platform Implementation/Support

## ITSI and Observability Services

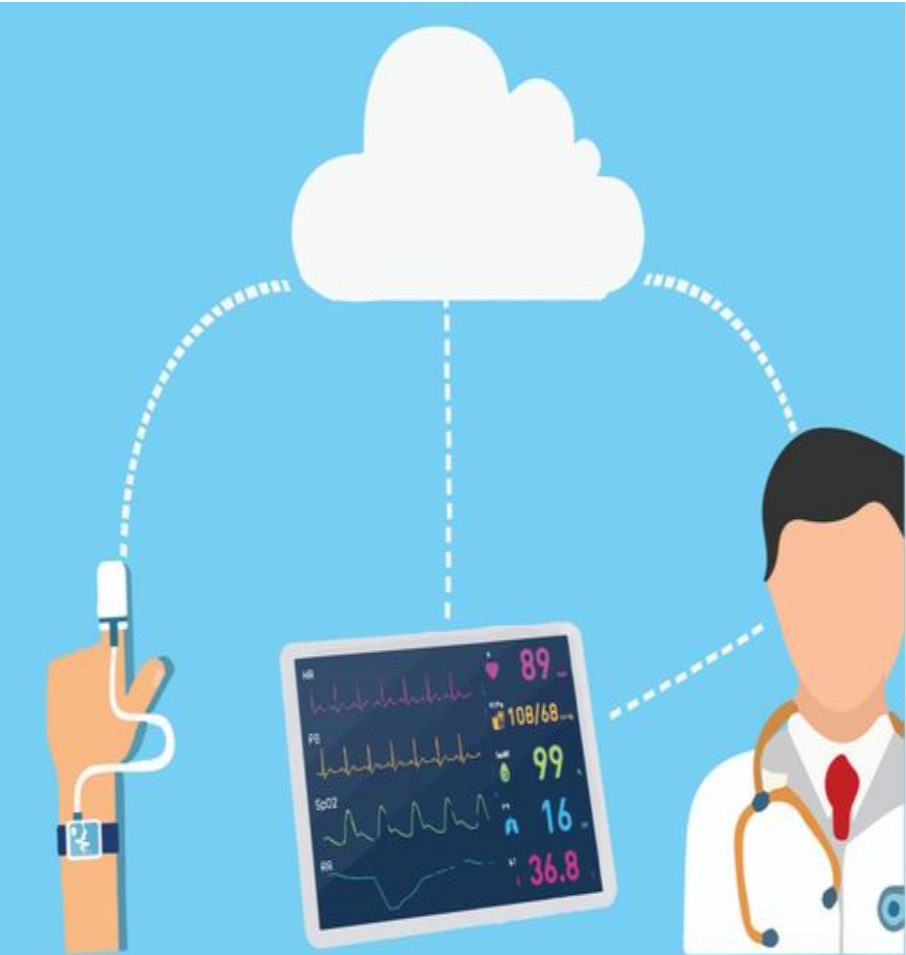
Splunk / Elastic / Dynatrace based IT Observability Implementation Services

## Lab For Rapid POC Development

SAS, Splunk and Azure based Lab for Rapid POC.



# INDUSTRY PROBLEM STATEMENTS



Increasing stressful lifestyle patterns and compromised eating, and sleeping habits lead to undetected risks to personnel health.



Industries which follows employee health regulations like OSHA don't have a concrete way of measuring and assessing employee's health with respect to work stress.



Increasing Pharmaceutical and Consultation costs leads people to avoid medical checkups on a regular basis.



Past Year-on-Year medical history and trends not maintained digitally at single location.

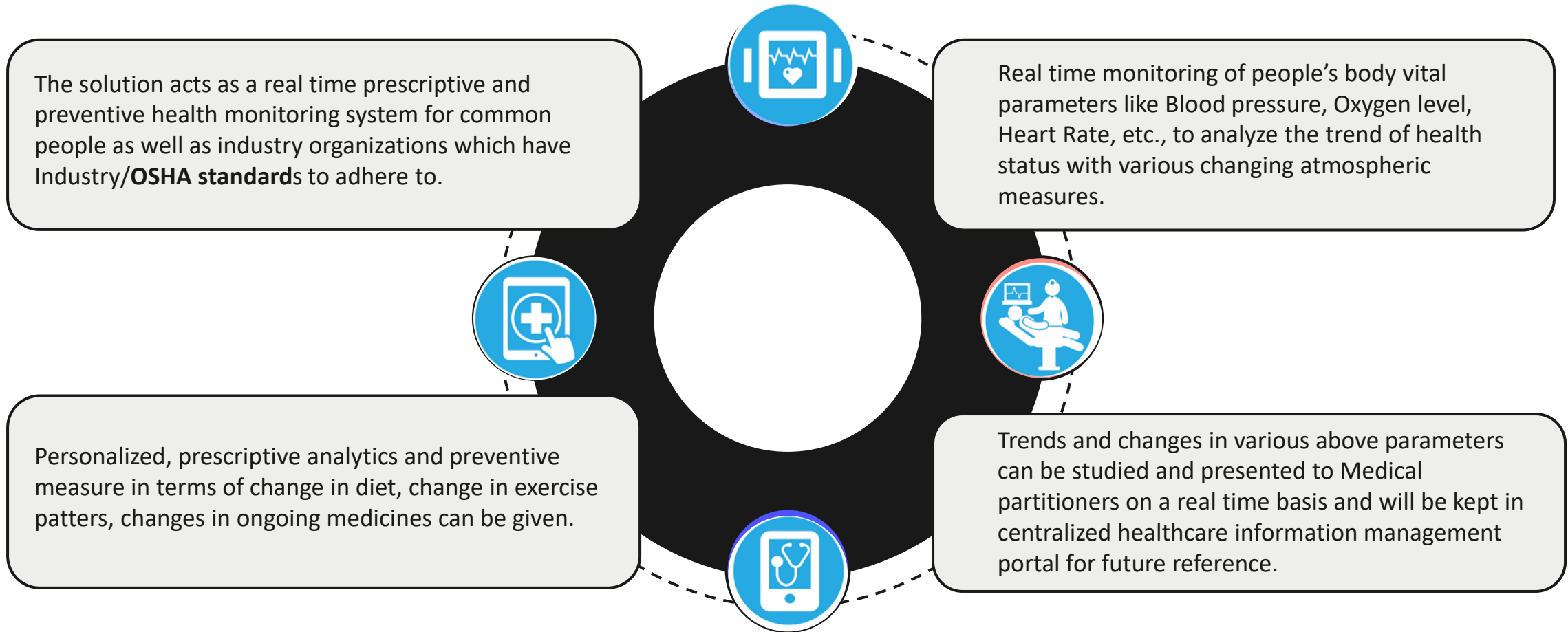


No warning alerts on miniscule changes in health parameters which can lead to larger complications if left unseen.



Atmospheric measures like Air Quality Index has a huge impact on an individual's vitals which is seldom taken into consideration and analytics.

# PROPOSED SOLUTION





# APPLICATION IN DIFFERENT INDUSTRIES



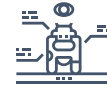
## HAZARDOUS INDUSTRIES

- Prescribing the individuals working at extreme locations based on the atmospheric conditions about the various body measures and generates alerts if measures goes beyond the limit. With this, Industries can reduce the extent and severity of work-related injuries and illnesses and can optimize the costs to increase the productivity by taking effective management steps for employee safety and health protection (As per OSHA standards).



## SPORTS & FITNESS

- Prescriptive analysis on regular fitness of athlete/player can be done for better performance at the field and to increase efficiency in the work-out sessions.



## SMART FACTORY (PRODUCTION)

- Now-a-days, factories are getting smarter by using IoT solutions as workers are still being affected by harmful effects of production system. Our solution will make the whole environment smarter and effective by taking care of workers with ease.

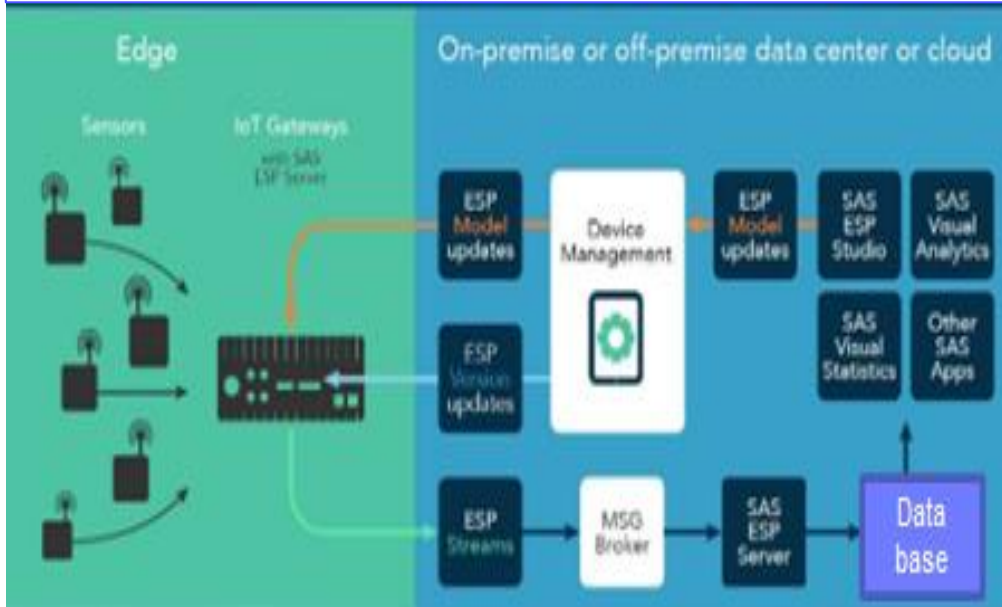


## HEALTHCARE & INSURANCE

- Real-time monitoring will reduce the visits and long queues in the hospitals by providing personalized and prescriptive analytics with ease. Consultants can review the medical records based on trend and prescribe the treatment for certain high-risky health issue.
- Insurance companies can advice the customer about regular checkup based on insights. Also, premium for policy can be decided accordingly.



# FEATURES OF THE SOLUTION



Body parameter data collection & analysis on real time basis

In-memory, distributed & optimized processing of millions of events per second

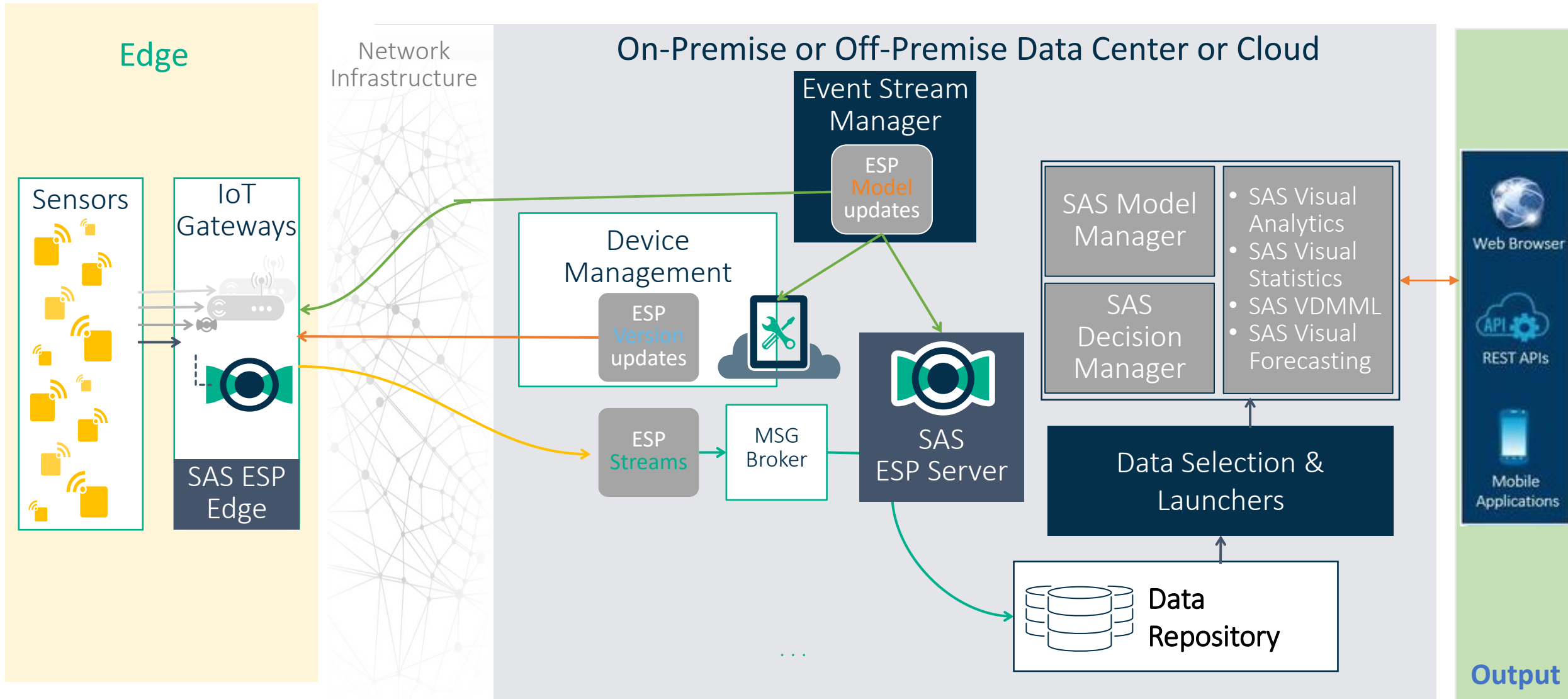
Faster deployment of containerized SAS Event Stream Processing for cloud

Machine learning streaming-algorithm for risk scoring

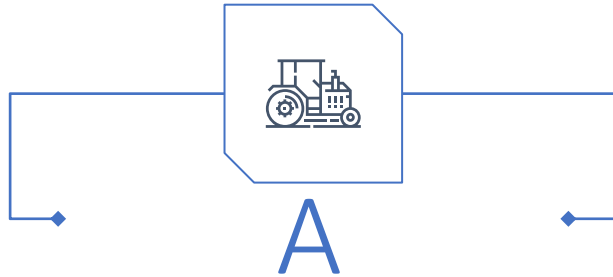
Ability to consume & connect streaming data from large number of sources

Availability of aggregated body measure information on cloud or data center for further analysis

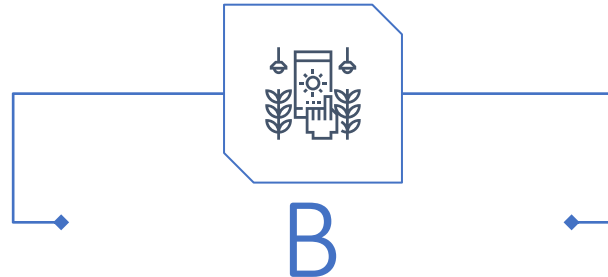
# TECHNICAL ARCHITECTURE



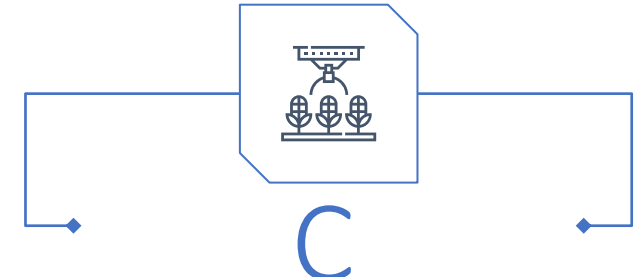
# BENEFITS



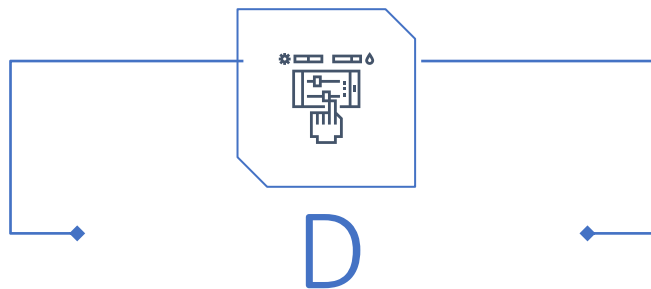
- Industries having mandate to Labour laws like **OSHA standards** have a prominent platform to measure the health and illness in their employees.



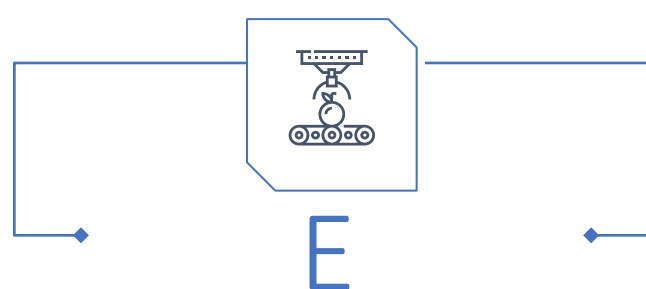
- Digital storage of Personnel's health data (while **maintaining Data security and permissions**) in Centralised Health information system for useful insights to Doctors and Industries.



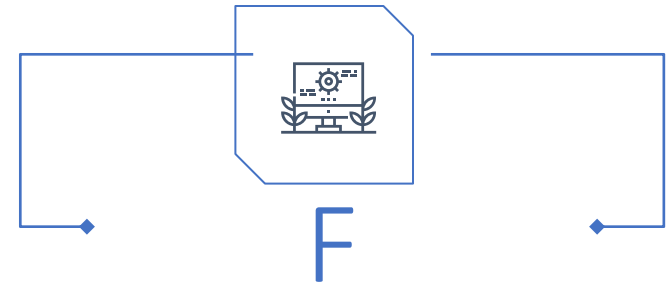
- Sustainable and real-time monitoring solution at ease and maintaining health through advanced technologies.



- Advice/prescriptions and Medical support available to the end user with visualization based on trend analysis.



- Touchless solution that prevents HAIs (hospital-acquired infections).



- Enhances patient safety effectively and alerts to family, doctors & near and dear ones.

# TEAM MEMBERS



**Kaushal Bhatt**  
**Sr Data Scientist**  
**BE (Mechanical), Mast. Information Mgt**  
**Total IT Exp : 12 years**

Worked on Data analytics & Machine learning for Kotak Bank, BOB card, FedEx & Shopper Stop, Godrej, HPCL, ITC Will. SAS Certified data Scientist.

10 years of diverse experience with expertise in Business Analytics, Machine Learning, Statistical Modelling, Data Visualization & Reporting. Proficient in SAS EG, SAS E-miner, Hadoop, Hive, Pig, Data Flux, SAS Data Visualization, Advance Excel, Oracle SQL, MS Office suite. Currently working on SAS based EWS implementation and Managing Data warehouse data for Advanced Analytics implementation on Customer data for identification of NPA and external data source cross utilization.



**Dipen Deori**  
**Senior Data Engineer**  
**BSc (Eco)**  
**Total IT Exp : 10 Years**

Overall, 10 years in IT, out of which 8 years in SAS. Working in various domain like Healthcare, Banking and Telecom and working various SAS Tool like SAS Base, SAS Macro, SAS SQL, Advanced SAS, SAS DI, SAS EG, SAS VI, SAS VA, SAS VTA, SAS OLAP studio, IMS Studio, Web Report Studio and SAS Viya4. Knows R, Python, SQL, Oracle database and Teradata in both Linux and Windows Environment.



**Shrishti Singh**  
**Software Developer**  
**B.E (Information Technology)**  
**Total Exp – 3+ Years**

Three plus year experience in analyzing and developing automation reports, codes and applications using Python , Django , Pandas and other libraries.

Contributed to the design and development of application features. Worked with UK Healthcare. Experience on working with Python, Java , Database Management SQL, Python libraries. Have knowledge in building supervised and unsupervised models using Python. Currently working on SAS Tools like SAS Viya , Visual Analytics. Currently working on machine learning project using Python for the ONGC Project.



**Ravi Bhangre**  
**Data Engineer**  
**MCA (Masters in Computer Application)**  
**BCS(Computer Sciences)**  
**Total Exp – 6+ years**

Over 6+ years of core software development experience in Data Warehousing & Business Intelligence Application Development and Reporting Portal Development.

Knowledge of Base SAS, SAS Macros, SAS/SQL, SAS/ODS, SAS/GRAPH, SAS IMAP, SAS OLAP Cube, SAS Web Report Studio, SAS BI Dashboard, SAS Management Console, SAS Enterprise Guide, SAS Portal, SAS Visual Analytics, SAS Visual Statistics, SAS Data Integration Studio, Master Data Management Studio, SAS DataFlux etc.

Good Knowledge about Data Exploration, Parse Definition, Grammar, Vocabulary, Profile, and Scheme, Match code, Surviving record, Golden Record Pattern Analysis, Business Rule, Pattern Analysis.

# TEAM MEMBERS



**Tushar Ranjan Mohanty**  
**Data Engineer**  
**BE, Mast. Information Technology Management**  
**Total Exp – 8 years**

Eight years of experience primarily into SAS. Knowledge of SAS intelligence platform, experience in working on various SAS BI tools and hands on experience in SAS programming, SAS data visualization, SAS reporting, Data analytics, Advanced excel, Database technology. Worked on projects related to Warranty Analysis, marketing analytics, retail analytics, credit risk, data management for clients Avery Dennison, John Deere,. Good business communication skill. Working on SAS analytics project for Coal India Limited.



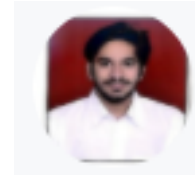
**Aditya Jain**  
**Data Engineer**  
**B.Tech (Information Technology)**  
**Total Exp – 6+ years**

6+ Years of experience in performing advanced analytics using SAS and SQL and used various SAS tools like Base SAS, SAS Programming/EG, SAS reporting, SAS Macros, SAS SQL. Used various data management tools like MySQL and IBM DB2 on windows environment and IBM mainframe. Worked on projects related to US Healthcare for clients like JPMC, Morgan Stanley and HP, and Ratings for client IMDB. Currently working on Digital Compliance Monitoring System using Risk Stratum.



**Mandeep Singh**  
**Data Engineer**  
**BCA**  
**Total Exp – 4+ years**

Two years of experience into SAS and rest of the experience in US healthcare domain. Experience in working on SAS BI tools and hands on experience in SAS programming, SAS data visualization, SAS reporting, Data analytics, MS excel, Database technology and Introduction knowledge of automation anywhere . Worked on projects related to US Heathcare. I have Good business communication skill and currently working on SAS analytics project for Coal India Limited.



**Lakshay Kapil**  
**Data Engineer**  
**B.Tech(Instrumentation)**  
**Total Exp- 4 years**

Three plus years of experience into SAS and used various tools like Base Sas, Sas reporting, SAS SQL. Worked on projects related to US Marketing. Good business communication skills. Currently working on SAS analytics project for CM Dashboard Manipur.



# TEAM MEMBERS



## **Babita Dey**

**Data Analyst**

**B.Tech, MBA (Data Sciences and Data Analytics)**

**Total Exp – 1+ years**

Data science enthusiast with inclination towards Data visualization. Tableau, Neo 4j, Microsoft Power BI are the key tools used to depict the story of the data. Machine learning models are made with the help of RStudio and Python. Built a GUI with the help of RStudio and Xampp for performing Social media and Sentimental Analytics. Other domains/projects which have been performed are Customer Analytics, HR Analytics, Social Media Analysis, Sentimental Analysis, Performed hands-on on SAS Viya. Currently working on Python and CMPDI



## **Akshay Saini**

**Data Analyst**

**B.Tech (CS), MBA (IT Business Mgmt.)**

**Total Exp – 1+ year**

Experienced in building supervised and unsupervised learning models in Python/R/AzureML. Good business process management knowledge with representational skills using Tableau/PowerBI and worked on business process mining tools like Signavio/Celonis. Working on various SAS tools like SAS Viya, SAS VA/VDMML, and SAS DI/EG. Worked on projects related to HR analytics, marketing analytics, customer-churn, fraud risk, and data management using SQL. Currently working on Digital Compliance Monitoring System using SAS Risk Stratum and Banking EWS Solution.