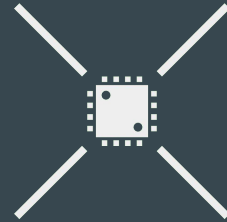


# Intelligent Transformer Fleet Management



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Edge-Triggered

Health Monitoring, Fault Diagnostics and Inventory  
Management



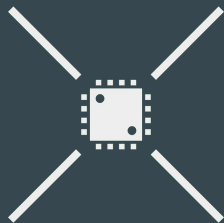
Rahul Bothra  
Back End Developer

# The Team

Siddhant Jain  
Product Design



Rohit Rajhans  
Front End Developer



Neethu Joy  
App Developer



Edge-Triggered



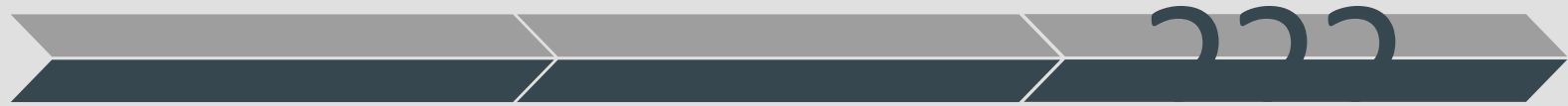
Manan Soni  
Back End Developer

Tanya Garg  
Back End Developer





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## Curative Maintenance

“If it ain’t broken, don’t  
fix it!”

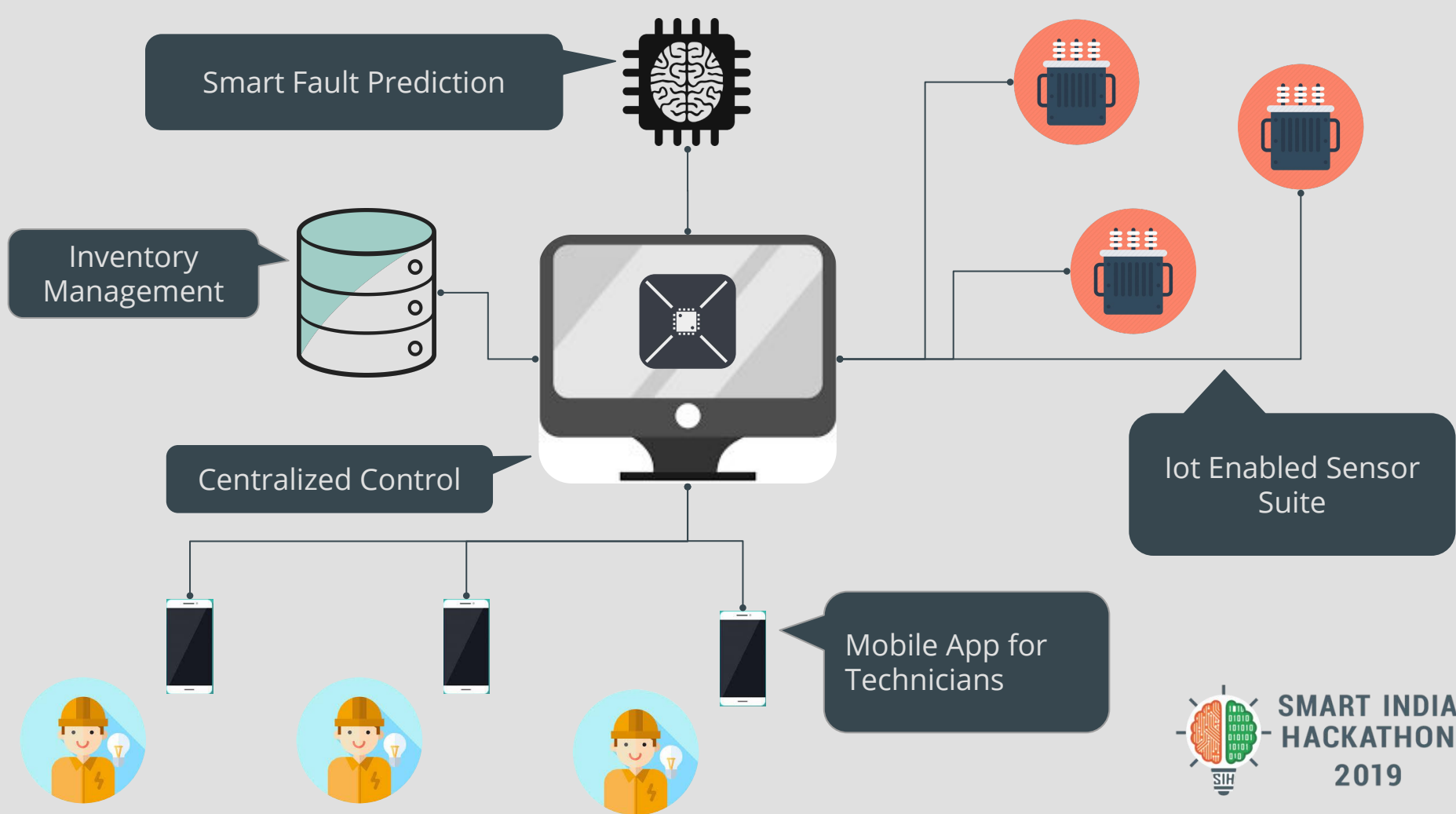
## Preventive Maintenance

“An Apple a day keeps  
the Doctor away!”

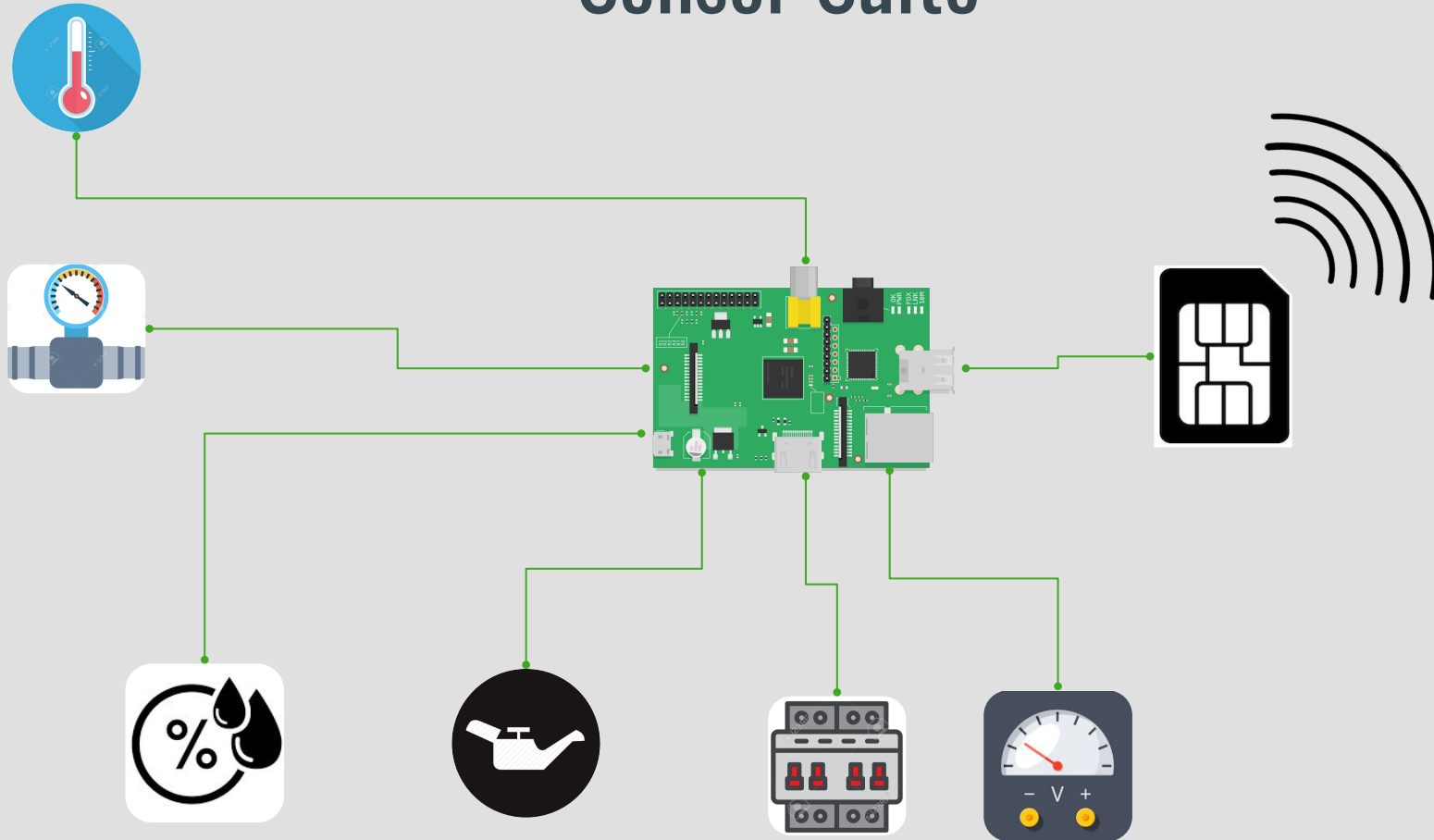
## Predictive Maintenance

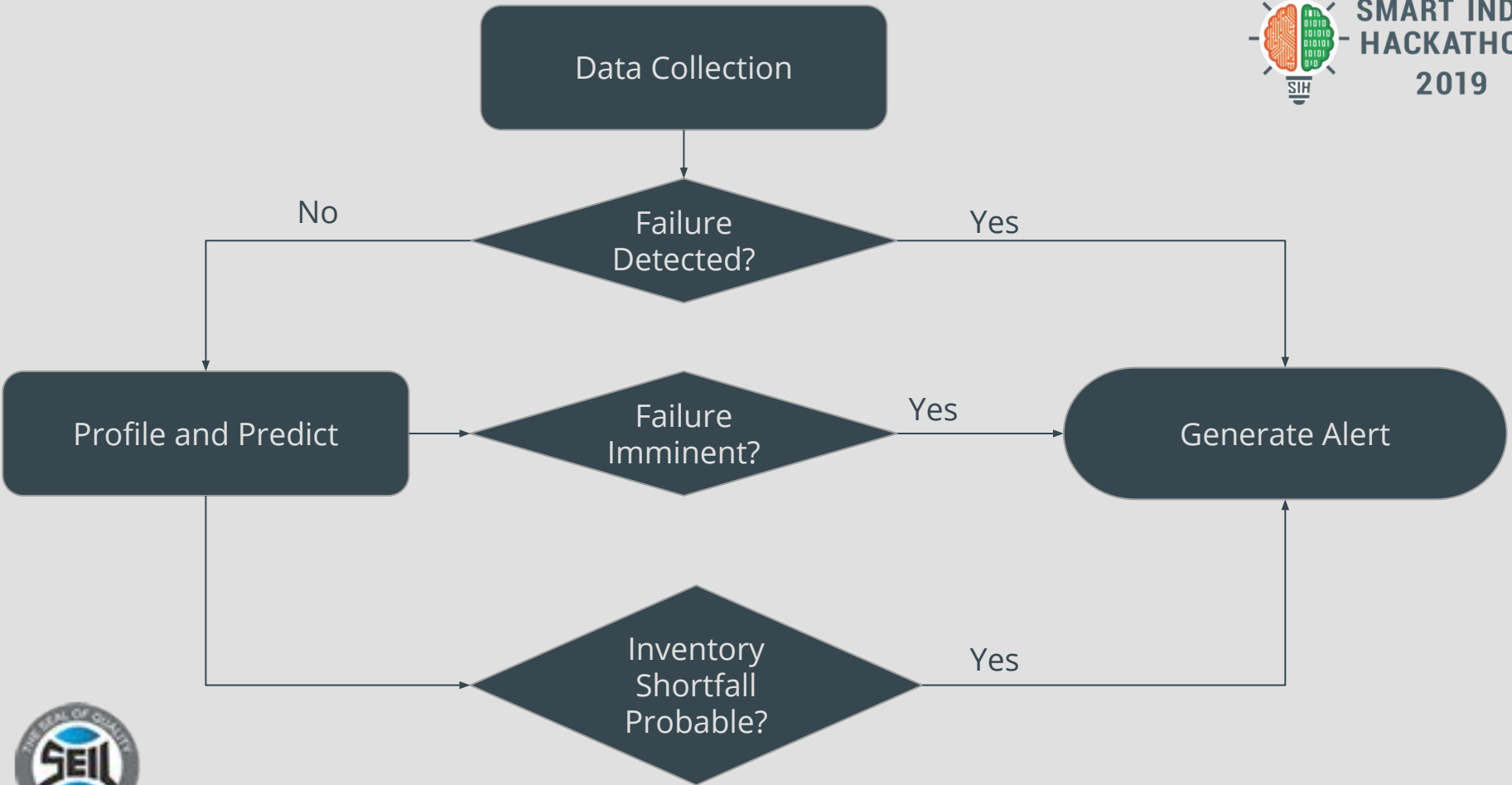
“An inspection without  
faults, is an inspection  
wasted.”





# Sensor Suite

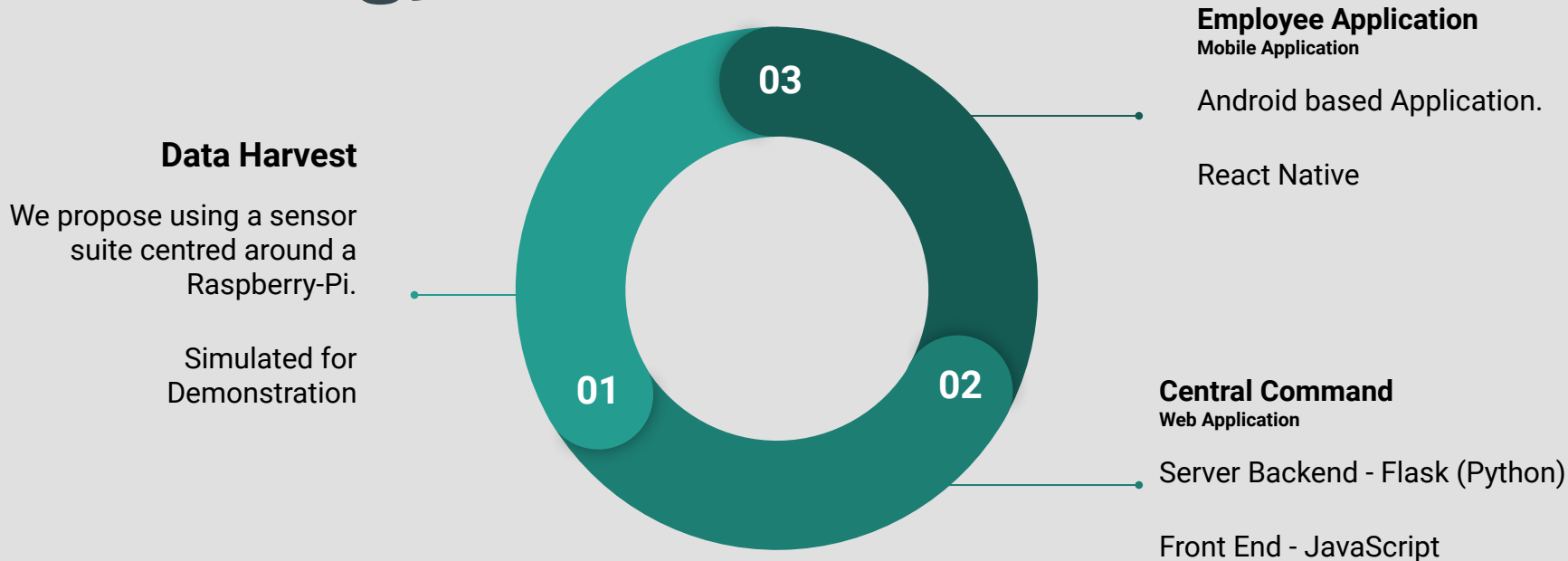






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# Technology Stack



# Why Automate?



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01

Lowered Reaction Time

- Real Time Monitoring and Fault Detection
- Fault Prediction

02

Increased Reliability

- Predictive Maintenance

03

Operational Efficiency

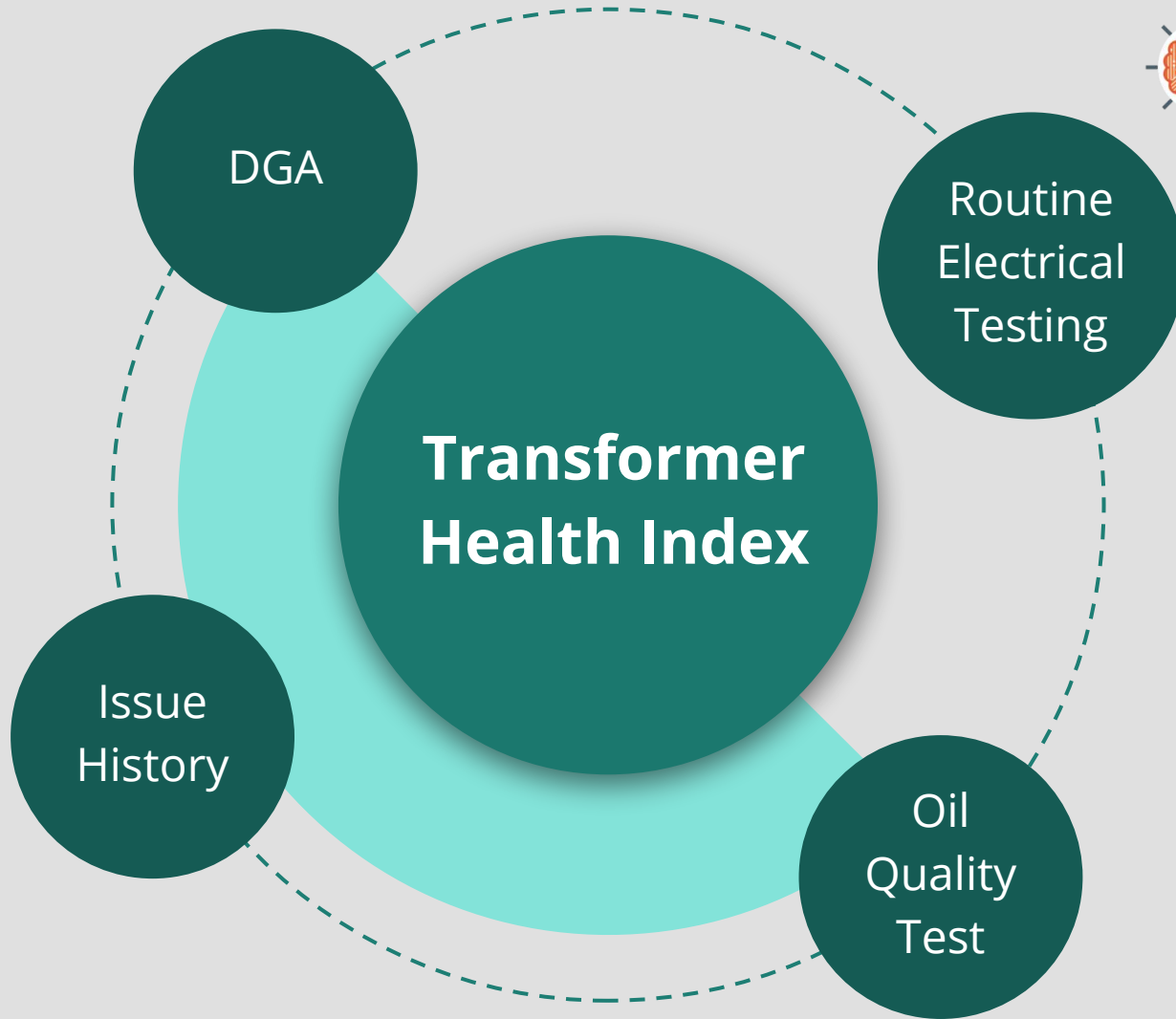
- Leveraging Data Analytics







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# Fuzzy Classifier

“IF %age of  $C_2H_2$  is “less” AND  
%age  $CH_4$  is “less” AND %age  $C_2H_4$  is  
“high”,

THEN it's most resembles a thermal  
fault with temperatures greater than  
 $700^{\circ}C$ ”

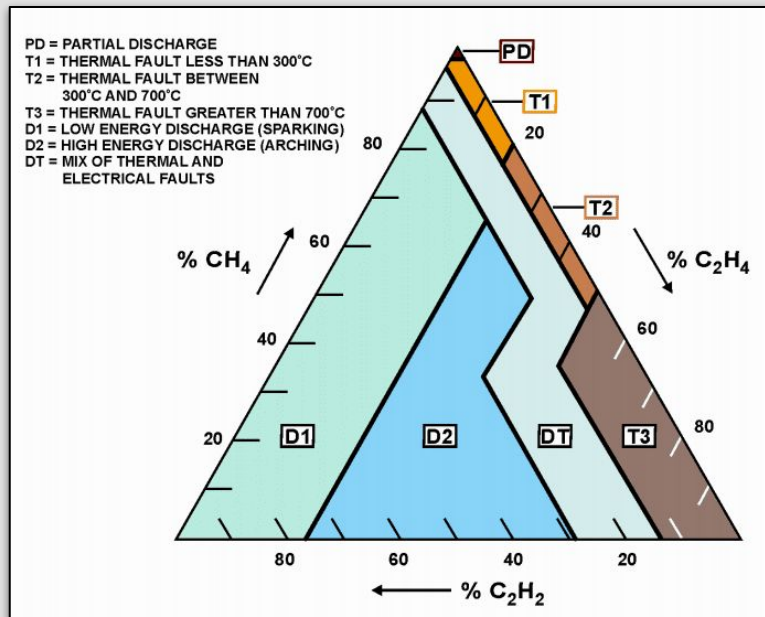


Fig- Duval's Triangle  
Example of a Fuzzy Classifier.

# Questions?