



# GENAI RUSH <BUILD/>ATHON

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## Team Name: Data Folks

**Problem Statement:** Generating synthetic data using the GAN technique for the industries

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## Brief about the Idea:

Our idea is to increase the ML and DL algorithm's efficiency using **GAN (Generative Adversarial Networks)** to synthesize the data which will be helpful to **overcome these real-world problems like lack of equally distributed data without bias, limited data** and so on.

Due to privacy concerns, bias and errors, training the Machine Learning and Deep Learning algorithms have been difficult to produce a better result. Because of this, various industries have experience troubling to utilise real-time data to enhance their data-driven decision. Our idea will ensure the anonymization of real-time user data and also help to make the employees better business decisions.

## Opportunity :

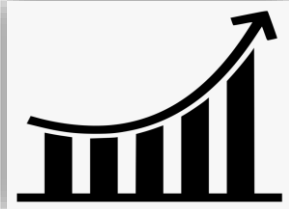
- We use advanced GAN networks to produce and authenticate real-time data, which differs from the existing classical networks.
- The state of the GANs is efficient in producing synthetic data, which is the perfect mirror of the real-time data. This helps to solve the problem by generating bias-less synthetic data to enhance the algorithm's efficiency.

## List of features offered by the solution :

- Anonymity over User Data
- Enhanced Algorithm performance
- Privacy Protected Data-Driven Solution
- Scalable real-time applications



Anonymity



Algorithm  
efficiency

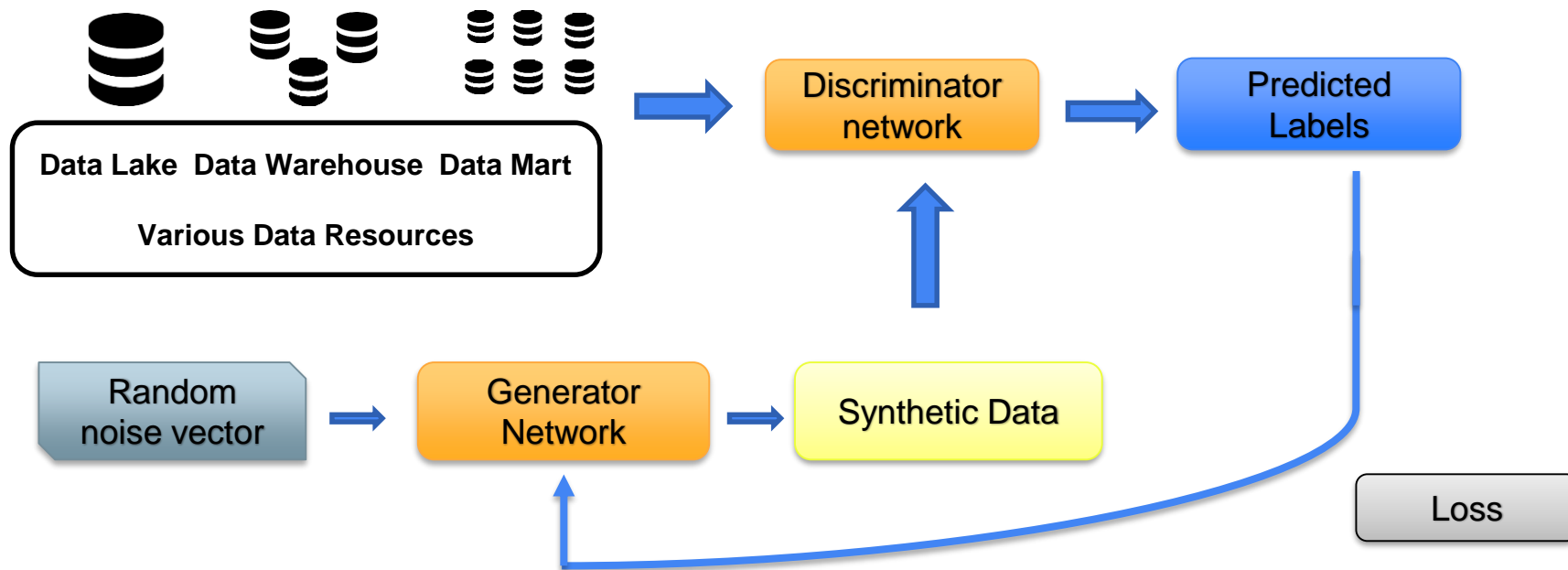


Privacy  
protection



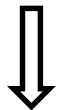
Scalability

## Process Flow Diagram / Use-case Diagram:

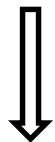


## Business Logic of the Solution:

Enterprise Data



GAN Synthetic Data (**Business Solution**)



Enhanced Algorithms data decision making

## Technology used :

- Python (above 3.8 version)
- Jupyter Notebook/Google Colab
- Tensorflow / Keras, Pytorch

**The estimated cost of/after implementing the solution :**

**\$ 3000**



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# THANK YOU

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