

# INTERNAL DEVIATHON 2025

## TITLE PAGE

- **Problem Statement ID – DEV0007**
- **Problem Statement Title –AI PERSONALIZED MEDICINE**
- **Theme –CYBER SECURITY**
- **PS Category - Software**
- **Team ID - DV21**
- **Team Name – LOGIC LEADERS**

# AI PERSONALIZED MEDICINE

AI personalized medicine = **"The right treatment, for the right patient, at the right time."**

## ADDRESSES OF THE PROBLEM :

**Data Overload** : AI analyses huge patient datasets to find hidden patterns fast.

**Early Diagnosis** : AI detects early disease signs from genetics, scans, and wearables for timely treatment.

**Drug Response** : AI predicts how patients respond to drugs based on genetic info to personalize prescriptions.

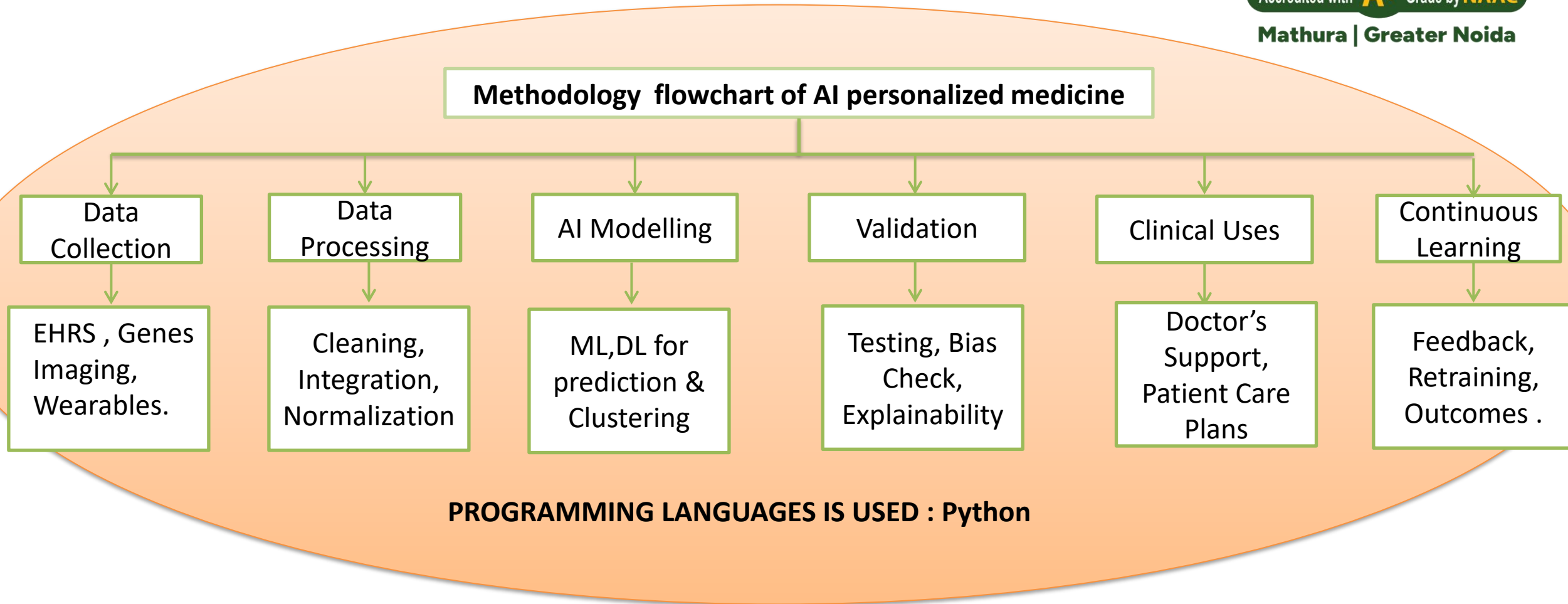
**Clinical Decision Support** : AI recommends tailored treatment plans by learning from similar cases.

**Drug Development** : AI accelerates drug discovery by predicting effective molecules for specific patients.

**Remote Monitoring** : AI + wearables track patient health in real-time, alerting for personalized care.

## INNOVATION AND UNIQUENESS :

- Combines different data like genes, health history, and wearables.
- Updates treatment plans as patient data changes.
- Makes faster and more accurate decisions than traditional methods.



## Feasibility Analysis

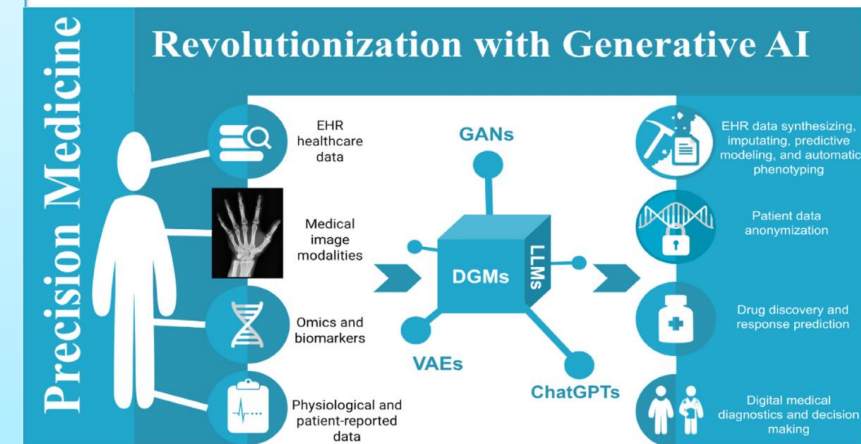
- AI boosts healthcare access and affordability in rural/underserved areas.
- Proven success in cancer treatment, drug response, and diagnostics.

## Challenges & Risks

- Patients may distrust AI due to lack of transparency.
- AI decisions often feel like a “black box,” causing fear of uncertainty.

## Strategies to Overcome

- Combine AI with doctor involvement for better trust.
- Provide easy-to-use apps that clearly explain AI advice.



Source: ChatGPT

# IMPACT AND BENEFITS

- Potential impact on target guidance.
- Patients gets faster and better guidance by saving time.
- Benefits of the solution.
- According to our medical data AI can predict the disease in advance.

Book : NIH: Artificial Intelligence in healthcare  
transforming of medicine

Author: Junaid Bajwa, Usman Munir

Source: ChatGPT