



A Seminar on

Personalized Medicine and Treatment Model Using AI

Dr Atul H Karode

E&TC

Activity Report

-	
Academic Year	2024-25
Program Driven by	
Quarter	III
Program / Activity Name	Capacity Building Program
Program Type	
Program Theme	Innovation and startups
Start Date	08-03-2025
End Date	08-03-2025
Duration of the Activity (in Mins)	60
Number of Student Participant	0
Number of Faculty Participant	70
Number of external Participant	
Expenditure Amount in Rs.	
Any Remark	
Mode of Session Delivery	Offline
Objective	
Benefit in terms of Learning / Skills /	
Knowledge obtained	
Feedback	
Video url (mp4)	
Photograph 1 (jpg)	Attached
Photograph 2 (jpg)	Attached
Overall report of the Activity (pdf)	As given below

Dr. P. H. Zope Convener IIC







Title:

Personalized Medicine and Treatment Model Using AI

Speaker:

Dr. Atul H. Karode

Date:

[08-03-25]

Venue:

[SSBT COET Bambhori]

1. Introduction

The seminar on "Personalized Medicine and Treatment Model Using AI" was delivered by Dr. Atul H. Karode, a renowned expert in biomedical applications of Artificial Intelligence (AI). The session explored how AI is revolutionizing healthcare by enabling personalized medicine—a treatment approach tailored to individual patients based on genetic, environmental, and lifestyle factors. Dr. Karode highlighted how data-driven AI models can significantly improve diagnosis accuracy, predict treatment outcomes, and support clinical decision-making, thereby offering more precise and effective healthcare solutions.





2. Objectives of the Seminar

- To introduce the concept of personalized medicine and its importance in modern healthcare.
- To explore the role of AI in creating individualized treatment plans.
- To discuss real-world applications of AI in genomics, diagnostics, and drug response predictions.
- To understand the challenges and ethical considerations in AI-based personalized healthcare.

3. Key Highlights of the Seminar

a. What is Personalized Medicine?

Dr. Karode began by defining **personalized medicine** as a medical model that customizes healthcare decisions, treatments, and products to individual patient characteristics. Unlike the traditional "one-size-fits-all" model, personalized medicine aims to deliver the **right treatment to the right patient at the right time**. The model is driven by patient-specific data such as:

- Genetic information
- Medical history
- Biomarkers
- Lifestyle data

b. Role of AI in Personalized Medicine

AI plays a pivotal role in processing and analyzing the vast and complex datasets required for personalized medicine. Dr. Karode explained how **machine learning**, **deep learning**, and **natural language processing** (**NLP**) are used to:

- Analyze genetic data to identify disease risk factors and mutations.
- **Predict drug response** for individual patients.
- Optimize treatment plans using real-time clinical and patient-reported data.
- Accelerate drug discovery and development through simulation and modeling.

c. Applications of AI in Personalized Healthcare

Dr. Karode highlighted several areas where AI is enabling personalized treatment models:

• Genomics and Precision Medicine:

AI algorithms analyze genetic sequencing data to identify mutations associated with diseases such as cancer, diabetes, and rare genetic disorders. Based on this, clinicians can select the most effective drugs or interventions.





Predictive Analytics for Disease Risk:

AI models can predict a patient's susceptibility to chronic diseases (e.g., cardiovascular disorders) based on family history, biomarkers, and lifestyle data, allowing early intervention.

• AI in Oncology:

In cancer treatment, AI helps determine the best chemotherapy or immunotherapy regimen by analyzing tumor genetics and treatment response data. Dr. Karode discussed how AI is being used to create **tumor-specific treatment strategies**.

Personalized Drug Recommendations:

AI-powered platforms assess individual patient profiles to recommend medications that minimize side effects and maximize efficacy. This is particularly useful in treating conditions with multiple therapy options like depression or hypertension.

• Wearables and Remote Monitoring:

AI processes data from wearable devices to monitor patient vitals continuously. These insights support personalized treatment adjustments in real-time, especially for chronic diseases like diabetes or heart failure.

• Clinical Decision Support Systems (CDSS):

AI-based CDSS provides clinicians with evidence-based suggestions tailored to each patient's profile. This assists in making more informed and timely decisions.

d. Benefits of AI in Personalized Medicine

Dr. Karode emphasized the multiple benefits of AI-powered personalized treatment:

- **Improved Patient Outcomes:** Treatments based on patient-specific data are more effective and have fewer side effects.
- **Early Detection and Prevention:** Predictive models enable early intervention, reducing disease progression.
- **Reduced Healthcare Costs:** By targeting treatments effectively, unnecessary tests and trial-and-error prescriptions are minimized.
- **Faster Drug Development:** AI accelerates the identification of therapeutic targets and the simulation of clinical outcomes.

e. Case Studies and Success Stories

Dr. Karode shared several impactful examples:

- **IBM Watson for Oncology:** An AI system that suggests personalized cancer treatment options based on patient data and vast medical literature.
- **Deep Genomics:** A company using AI to predict how genetic mutations will affect patients and how they can be treated.
- **Tempus Platform:** Uses AI to analyze clinical and molecular data to help doctors make personalized decisions in cancer treatment.

f. Challenges and Ethical Considerations





Despite its potential, Dr. Karode noted some challenges in implementing AI in personalized medicine:

- **Data Privacy and Security:** Sensitive health and genetic data must be protected with robust encryption and compliance with regulations like HIPAA or GDPR.
- **Bias and Fairness:** AI models can inherit biases from the datasets they are trained on, which can lead to disparities in treatment recommendations.
- **Regulatory Approvals:** The use of AI in healthcare requires rigorous validation and regulatory clearance, which can delay implementation.
- **Integration into Clinical Workflow:** Adapting existing healthcare systems to accommodate AI tools requires changes in infrastructure and clinician training.

g. The Future of Personalized Medicine with AI

Dr. Karode concluded by discussing future trends:

- AI + Genomics + Big Data will lead to hyper-personalized healthcare.
- Integration with **blockchain** may ensure secure handling of patient data.
- AI will continue to evolve with more interpretable models to gain clinician trust.
- **Digital twins** of patients may be created using AI to simulate treatments before actual implementation.

4. Interactive Session

In the Q&A session, participants asked about:

- How AI can be made explainable for use in clinical practice.
- The availability of AI tools for small and medium healthcare providers.
- Legal and ethical implications of using AI-generated treatment plans.

Dr. Karode provided thoughtful responses, emphasizing the need for transparency, collaboration with clinicians, and ethical frameworks for AI adoption.

5. Conclusion

The seminar concluded with a strong message: **AI is not replacing doctors—it is empowering them**. Dr. Atul H. Karode emphasized that the integration of AI in personalized medicine marks a new era of precision healthcare, where treatments are tailored to each individual's unique profile. This shift has the potential to transform how diseases are diagnosed, managed, and prevented.











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