الله الرحمن الرحيم

(طَلَبُ اَلْعِلْمِ فَرِيضَةٌ عَلَى كُلِّ مُسْلِمٍ أَلاَ إِنَّ اَللَّهَ يُحِبُّ بُغَاةَ اَلْعِلْمِ)

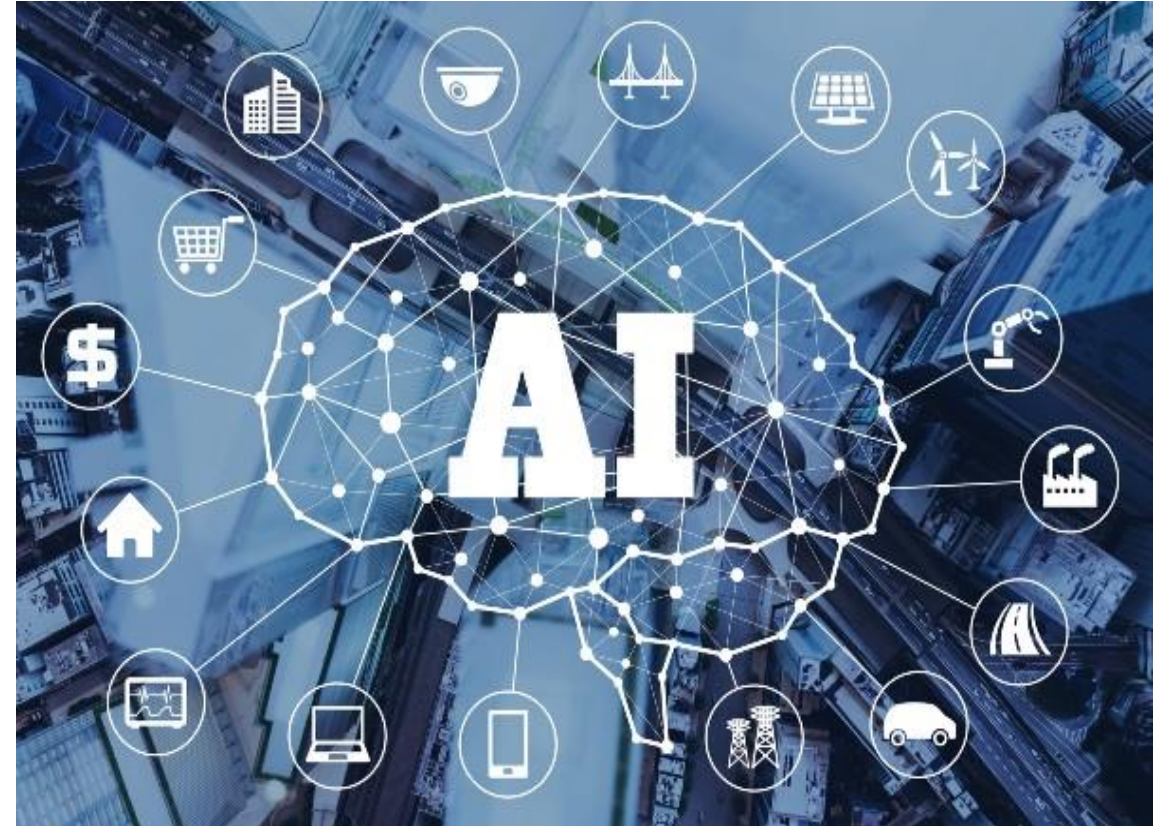# AI Future in Healthcare

✓ **Presented by:**
   Dr. Mohammadreza Momenzadeh

Artificial Intelligence

➢ **Machine Learning**

➢ **Machine Vision**

➢ **Natural Language Processing**

➢ **Experts Systems**

➢ **Robotics**

➢ **Artificial Neural Network**

AI infrastructure

- Computational Power

- Data Storage and Management

- Networking

- Machine Learning Frameworks

- MLOps Platforms

Areas of AI in Medicine

✓ Diagnostics

✓ Precision Medicine

✓ Drug Development

✓ Preventive Health

✓ Administration and Workflow Optimization

✓ Telemedicine

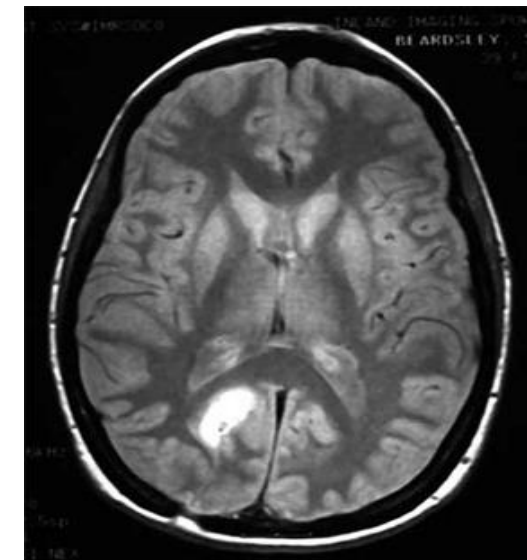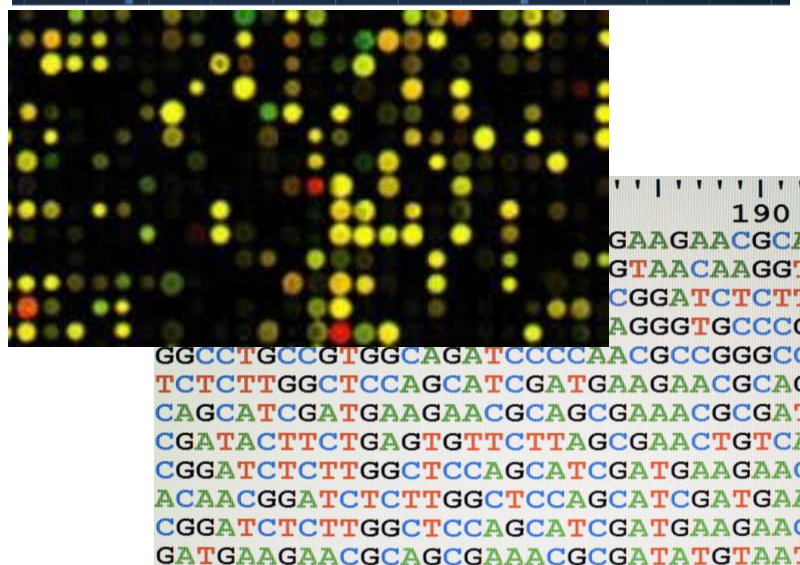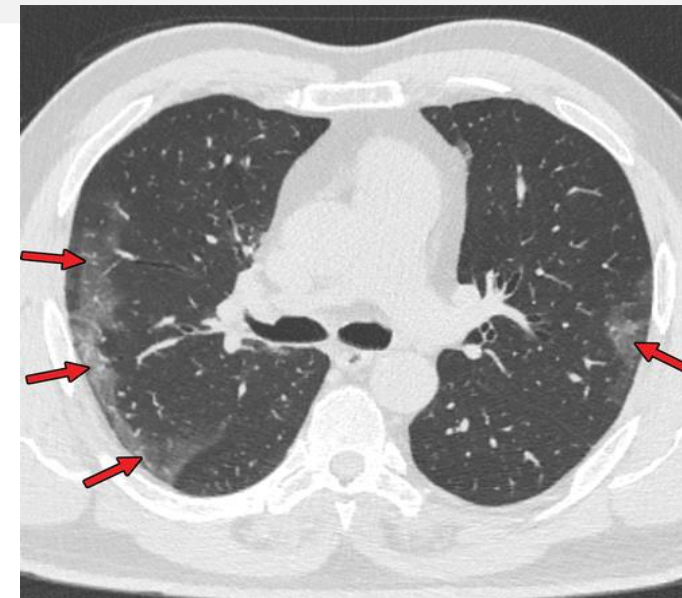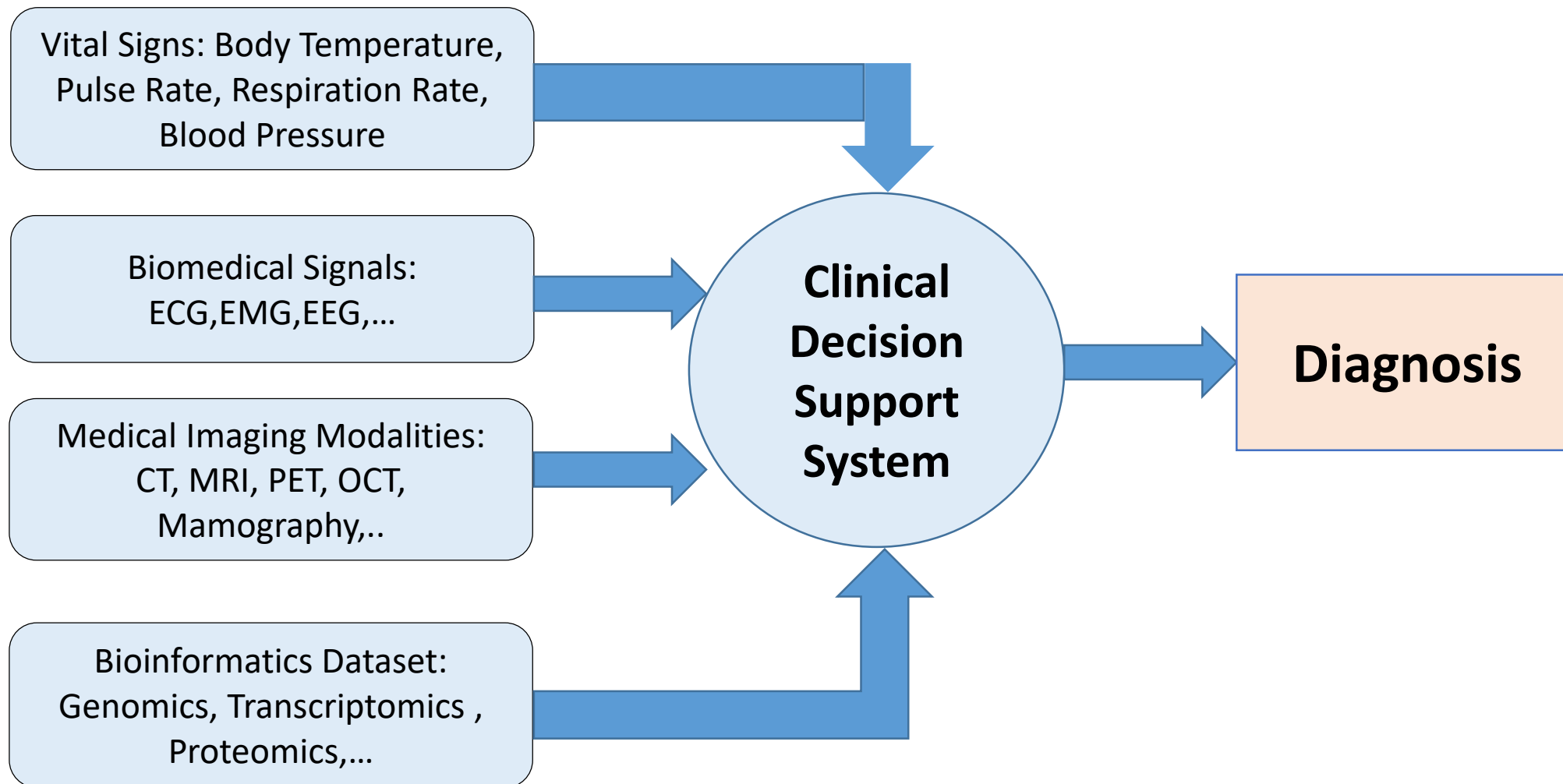# Biomedical Data Processing

- Neural Networks

- Clustering Models

- Classification Models

- Regression Models

- Statistical models

- Metaheuristics

- Hybrid approaches

- Genetic Algorithm

- Fuzzy Models

Biomedical Dataset

Advantages of Using AI in Diagnosis

- ➤ Improving the accuracy

- ➤ Improving the precision

- ➤ Saving time

- ➤ Early detection

- ➤ Prognosis

- ➤ Enhanced decision support

- ➤ Increased access to expertise

- ➤ Personalized medicine