



Big Data Analytics in Healthcare

*Healthcare Analytics,
Health Informatics
and Bioinformatics*

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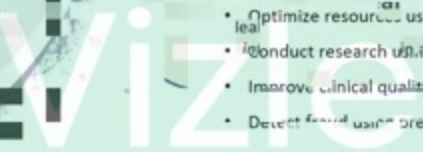
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Healthcare Analytics

Analysis of the data to inform decisions, improve quality and performance of the healthcare organization

- Increase access to care and decrease costs using business analytics
- Overcome re-imbursement challenges using comparison algorithm
- Improve patient outcomes using big data analytics
- Optimize resources using descriptive analytics
- Conduct research using advanced analytics
- Improve clinical quality using operational analytics
- Detect fraud using prescriptive and real-time analytics





The Biology in Bioinformatics



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The Biology in Bioinformatics

Genotype  **Phenotype**



Sequence alignment Database similarity search Motif finding			Protein interaction networks		
Gene finding	Differential expression	Mass spec protein identification	Transcription regulation networks	Virtual cell simulation	Population genetics
Comparative genomics	Co-expression	Structure prediction/alignment	Metabolic & signaling networks		Human genetics
DNA methylation	ncRNA				

The Informatics in Bioinformatics

Data  Discovery

Data Management

Data Computation

Data Mining

Modeling & Simulation

Databases
Ontologies
Meta-data

Algorithms
Software tools
Web servers

Biological discoveries

Predictive models
System simulation





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