

GENOME DATA ANALYTICS AT ZURA



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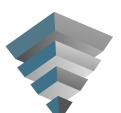


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Genome Data Challenges

- Diversity of Data Sources
- Data Volume & Complexity
- · Variability in Report Formats
- · Data Quality & Standardization
- Data Integrity
- Incomplete Data
- Unstructured Data
- Security & Compliance

Areas of Contribution



Data Extraction & Transformation

Report Ingestion, Validation & Processing

Analytics & Data as a Service

Genome Analytics Process

Data Collection

- DNA Sequencing Data
- Genetic Variation Data
- Test Reports & Clinical Data
- User Format

Data Storage & Categorization

- Structured Database Schema
 - Genetic Test based Categorization
 - Hierarchical Categorization
- Scalable Storage Infrastructure
 Data Protection Regulations
- **Encryption & Access Controls**



3

Data Extraction & Processing

- Custom Extraction Components
- ML Algorithms for
 - Handling Missing Data
 - Self-adaption in Data Input Formats
- Batch Processing
- External Data Integration
- Real-Time Processing
- · Validation & Verification

Visualization & Analysis

- Variant Frequency Plots
- Pathway Analysis Diagrams
- Statistical Analysis
- Dynamic Filtering & Sorting
- Interactive Visualization Tools
- Live Data Feeds
- Data Export and Sharing
- Feedback Loops

Scalability and Efficiency

Seamless

Reporting

Trustworthy

Information

Actionable Insights Informed Decision Making 2

Reliable Decision Support Mitigation of Risk of Breach Adherence to Compliance