



Interactive Dashboards – Empowering Clinicians to Generate Reports Instantly

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Data Visualization



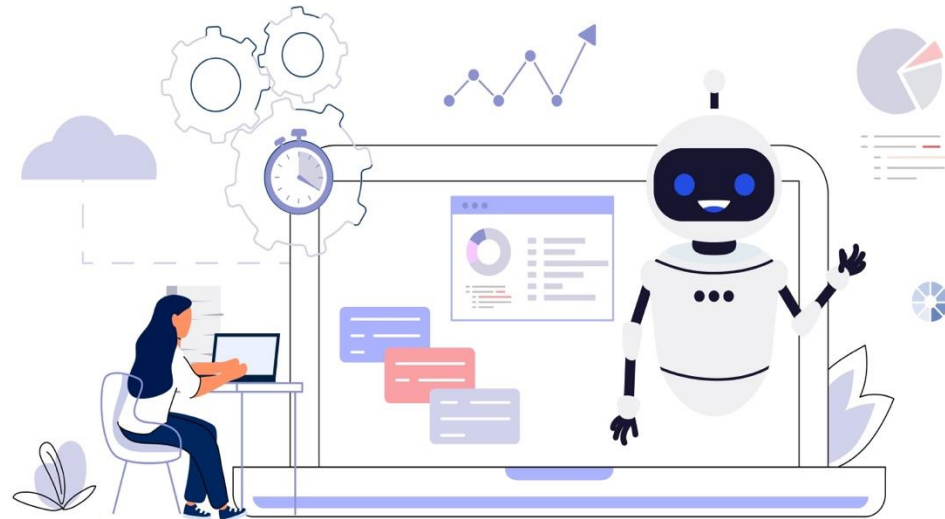
Data Checking (QC)



Trend



Monitoring



Forecasting/Prediction

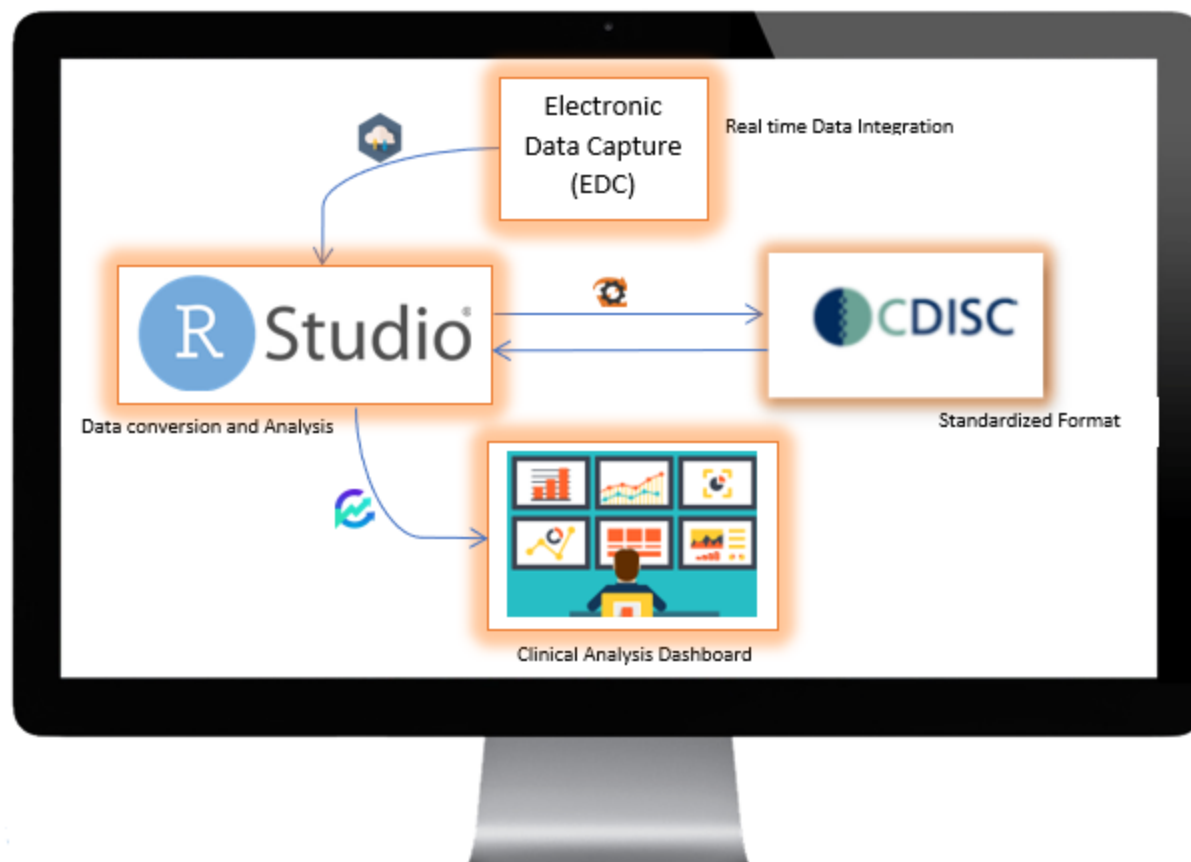
Approach

- **Open-source technology**
- **Dashboards using tools**

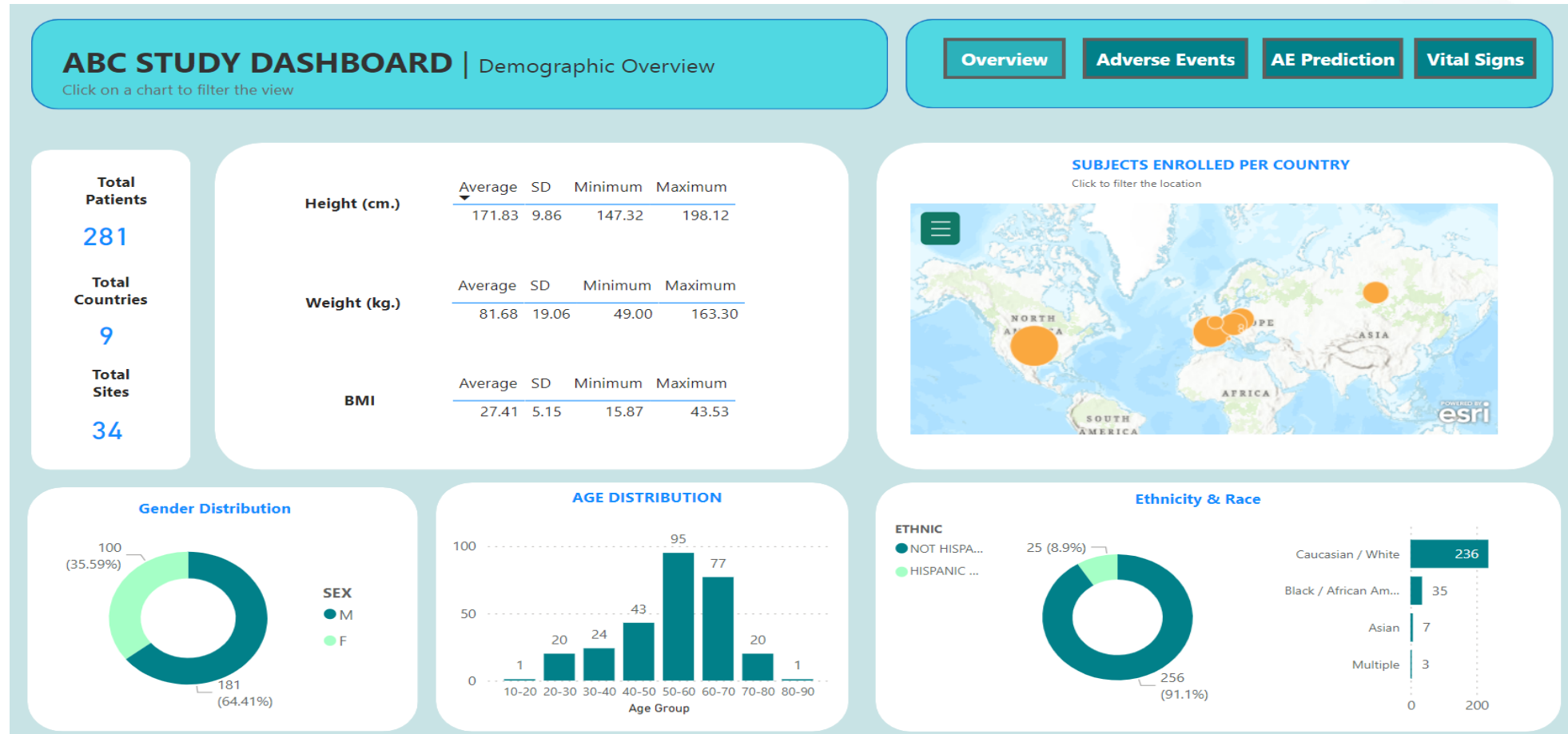


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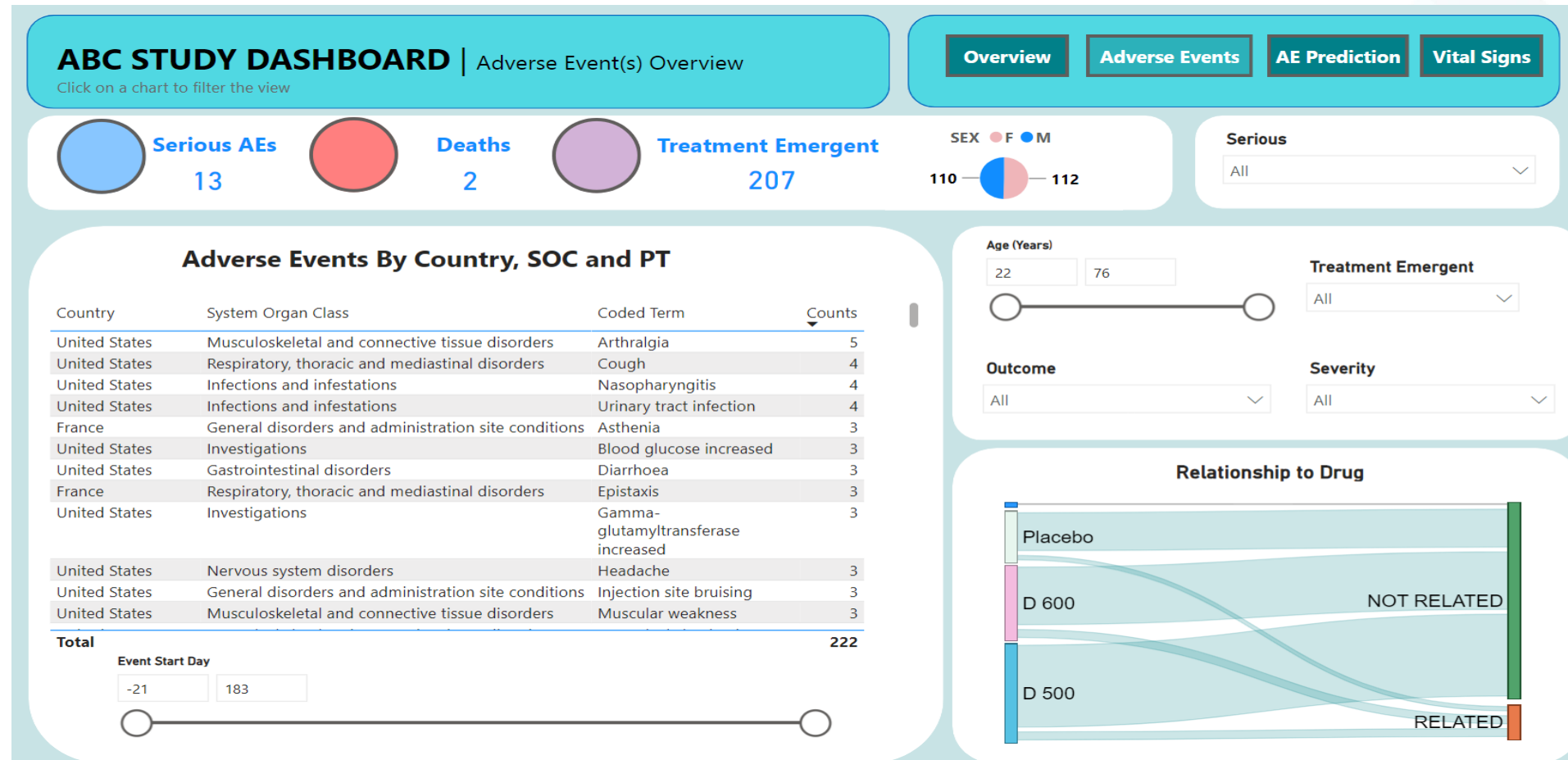
Open-sources Technologies Workflow



Dashboards Using Tools - Monitoring



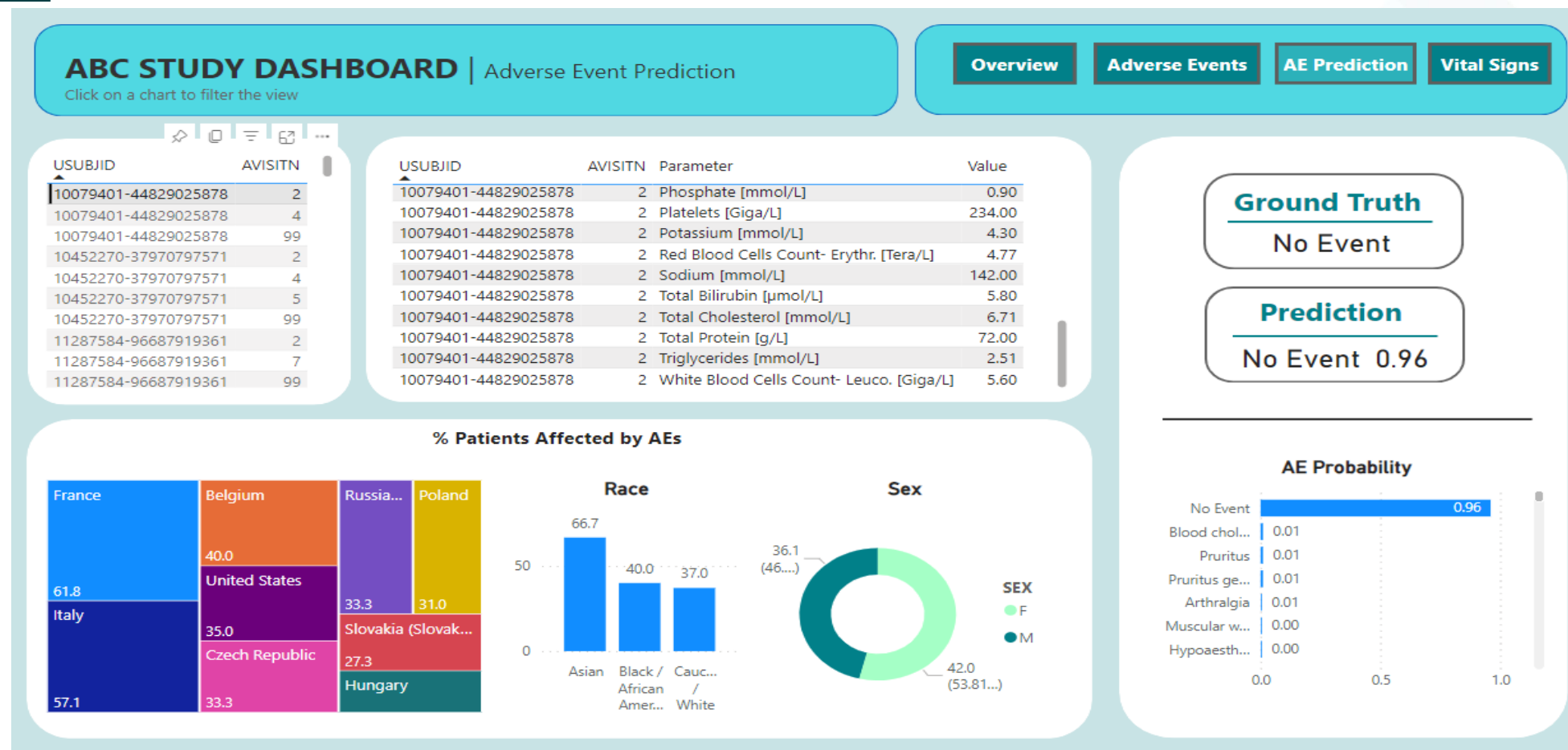
Dashboards Using Tools - Data Checking (QC)



Dashboards Using Tools - Trend



Dashboards Using Tools - Forecasting/Prediction



Dashboard Tools vs Open-Source Technologies

Feature	Dashboard Tools (Power BI, Tableau, Looker, Google Data Studio)	Open-Source Platforms (R Shiny, Apache Superset, Metabase, Grafana)
Ease of Use	User-friendly, drag-and-drop interfaces	Requires programming & setup
Customization	Limited (depends on the tool)	Highly customizable (full control over UI & logic)
Performance	Optimized for business intelligence	Can be optimized with coding skills
Data Connectivity	Supports various sources (Excel, SQL, APIs, cloud, etc.)	Requires manual database connections
Advanced Analytics	AI-powered insights, built-in ML (Power BI, Tableau)	Full flexibility (Python, R, ML models)
Cost	Paid subscription for full features (some free versions)	Free (self-hosted), but may have infrastructure costs
Collaboration	Easy sharing (cloud-based, role management)	Requires setup for web hosting & user access
Deployment	Cloud-based or on-prem (depends on tool)	Self-hosted, cloud (AWS, GCP, etc.)



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Be Ready!

Prepare dashboards early, aligning them with finalized clinical study protocols and case report forms (CRFs) to enable real-time data tracking. Using synthetic data, teams can test visualizations, validate data pipelines, and refine dashboards with clinician input for intuitive navigation. This ensures a seamless transition to live trial data, allowing clinicians to monitor patient enrollment, adverse events, treatment responses, and compliance metrics from day one. Real-time access enhances decision-making, safety monitoring, and protocol adherence, improving trial efficiency and success.



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Q&A

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Ideas
Delivered
Intuitively

Thank You!

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