The technologies of cloud-based that offer high scalable infrastructure and power data processing and easy to access from anywhere, play a growing pivotal point in these fields. Cloud services, specifically those are offered, can supply the powerful and expandable computations capacity, integrated AI toolkits, and Ensuring Availability for the Global Monitoring Environment.(Saini et al., n.d.)

There are forty-five articles (30%) have been examined in cloud-based integration solutions, and thirty-six articles (80%) focused on the functions of cloud platforms like Google cloud, Microsoft Azure, Amazon Web Services (AWS) in offering real-time, scalable big data integration services.(Lan et al., 2025)

These contemporary systems have received a lot appreciation for their ability in adaptation, which supports organizational development for their on-demand data processing capacity without making it necessary to conduct large advance infrastructure investments.(Saini et al., n.d.)

Through the implementation of hardware virtualization, cloud computing is capable of deliver a numerous advantage. As a result, the relationship between big data and cloud computing is collaborative, as the cloud infrastructure facilitates enhanced accessibility, scalability, and fault tolerance for substantial data collections.(Naamane, 2023)

Finally, the adaptability of cloud platforms and their processing strength also with their ability to integrate massive datasets and support organizational growth without heavy significant initial capital investments affirm their fundamental role in shaping the future of Digital platforms and infrastructures.