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Cloud-Powered Spatial Analytics: Leveraging Cloud Scalability for Advanced Data Insights

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Cloud computing has transformed the way businesses handle their data and extract insights from it. In the geospatial domain, the main cloud platforms such as BigQuery, AWS, Snowflake, and Databricks have recently introduced significant developments that allow users to work with geospatial data. Additionally, CARTO is developing a Spatial Extension - a set of products and functionalities built on top of these main Cloud providers that enable users to run geospatial analytics and build compelling visualizations.

In this presentation, we will highlight the advantages of cloud-based geospatial analysis, including scalability and agility. We will demonstrate the potential of CARTO's Analytics Toolbox through real-life scenarios, emphasizing its technical details and statistical techniques to provide attendees with a more in-depth understanding of its functionality.

We will also explore the application of cloud-powered geospatial analytics across various domains, such as retail, consumer packaged goods, urban planning, transportation, and natural resource management. Attendees will be shown how cloud-powered geospatial analytics has been used to solve complex problems and improve decision-making processes in these domains.

The session aims to provide a comprehensive overview of the latest advances in cloud-powered geospatial analytics and their potential applications. Attendees will gain insights into the latest tools and techniques for processing and analyzing geospatial data on cloud platforms, as well as the benefits and challenges associated with scaling geospatial analytics. This session is ideal for individuals involved in geospatial data analysis, cloud computing, or data science in general.

Keywords

Geospatial statistics; cloud-native analytics; applications

Classification

Both methodology and application

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