

A vector database is a type of database that specializes in storing and managing vector data. Vector data represents spatial information using points, lines, and polygons, often used in geographic information systems (GIS) and computer-aided design (CAD). These databases are designed to efficiently handle geometric shapes, their attributes, and relationships, making them suitable for applications involving maps, geographical data, and complex geometric structures. They're used in various industries like urban planning, cartography, engineering, and environmental science for spatial analysis, mapping, and visualization.