Moreover, both fields benefit from critical thinking and domain knowledge, as understanding the context and nuances of the data is essential for accurate analysis and modeling. In addition to statistical analysis, data science often involves tasks such as data preprocessing, feature engineering, and model selection. Data science, on the other hand, is a more complex and iterative process that involves working with larger, more complex datasets that often require advanced computational and statistical methods to analyze. However, the definition was still in flux. In 1996, the International Federation of Classification Societies became the first conference to specifically feature data science as a topic. Both fields play vital roles in leveraging the power of data to understand patterns, make informed decisions, and solve complex problems across various domains. In 2014, the American Statistical Association's Section on Statistical Learning and Data Mining changed its name to the Section on Statistical Learning and Data Science, reflecting the ascendant popularity of data science. In 1996, the International Federation of Classification Societies became the first conference to specifically feature data science as a topic. However, the definition was still in flux. Vasant Dhar writes that statistics emphasizes quantitative data and description. Stanford professor David Donoho writes that data science is not distinguished from statistics by the size of datasets or use of computing and that many graduate programs misleadingly advertise their analytics and statistics training as the essence of a data-science program. In addition to statistical analysis, data science often involves tasks such as data preprocessing, feature engineering, and model selection. He describes data science as an applied field growing out of traditional statistics. Data analysis focuses on extracting insights and drawing conclusions from structured data, while data science involves a more comprehensive approach that combines statistical analysis, computational methods, and machine learning to extract insights, build predictive models, and drive data-driven decision-making. F. A data scientist is a professional who creates programming code and combines it with statistical knowledge to create insights from data. A data scientist is a professional who creates programming code and combines it with statistical knowledge to create insights from data. However, the definition was still in flux. Both fields require a solid foundation in statistics, programming, and data visualization, as well as the ability to communicate findings effectively to both technical and non-technical audiences. Cleveland. In addition to statistical analysis, data science often involves tasks such as data preprocessing, feature engineering, and model selection. Data science is multifaceted and can be described as a science, a research paradigm, a research method, a discipline, a workflow, and a profession. While data analysis focuses on extracting insights from existing data, data science goes beyond that by incorporating the development and implementation of predictive models to make informed decisions. Data science is a "concept to unify statistics, data analysis, informatics, and their related methods" to "understand and analyze actual phenomena" with data. In 2003, Columbia University launched The Journal of Data Science.