After the 1985 lecture at the Chinese Academy of Sciences in Beijing, in 1997 C. After the 1985 lecture at the Chinese Academy of Sciences in Beijing, in 1997 C. "Data science" became more widely used in the next few years: in 2002, the Committee on Data for Science and Technology launched the Data Science Journal. Turing Award winner Jim Gray imagined data science as a "fourth paradigm" of science (empirical, theoretical, computational, and now data-driven) and asserted that "everything about science is changing because of the impact of information technology" and the data deluge. In 1996, the International Federation of Classification Societies became the first conference to specifically feature data science as a topic. 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 analysis typically involves working with smaller, structured datasets to answer specific questions or solve specific problems. Data science is an interdisciplinary field focused on extracting knowledge from typically large data sets and applying the knowledge and insights from that data to solve problems in a wide range of application domains. Data scientists are responsible for breaking down big data into usable information and creating software and algorithms that help companies and organizations determine optimal operations. 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. Data analysis typically involves working with smaller, structured datasets to answer specific questions or solve specific problems. The professional title of "data scientist" has been attributed to DJ Patil and Jeff Hammerbacher in 2008. It uses techniques and theories drawn from many fields within the context of mathematics, statistics, computer science, information science, and domain knowledge. Despite these differences, data science and data analysis are closely related fields and often require similar skill sets. In 1962, John Tukey described a field he called "data analysis", which resembles modern data science. Jeff Wu used the term "data science" for the first time as an alternative name for statistics. F. Data scientists are often responsible for collecting and cleaning data, selecting appropriate analytical techniques, and deploying models in real-world scenarios. 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 1962, John Tukey described a field he called "data analysis", which resembles modern data science. In 1985, in a lecture given to the Chinese Academy of Sciences in Beijing, C. 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. A data scientist is a professional who creates programming code and combines it with statistical knowledge to create insights from data. In 1996, the International Federation of Classification Societies became the first conference to specifically feature data science as a topic. However, data science is different from computer science and information science.