This can involve tasks such as data cleaning, data visualization, and exploratory data analysis to gain insights into the data and develop hypotheses about relationships between variables. Data science is a "concept to unify statistics, data analysis, informatics, and their related methods" to "understand and analyze actual phenomena" with data. In 1962, John Tukey described a field he called "data analysis", which resembles modern data science. Jeff Wu again suggested that statistics should be renamed data science. He describes data science as an applied field growing out of traditional statistics. There is still no consensus on the definition of data science, and it is considered by some to be a buzzword. Despite these differences, data science and data analysis are closely related fields and often require similar skill sets. 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. He reasoned that a new name would help statistics shed inaccurate stereotypes, such as being synonymous with accounting or limited to describing data. In contrast, data science deals with quantitative and qualitative data (e.g., from images, text, sensors, transactions, customer information, etc.) and emphasizes prediction and action. 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. 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. In a 2001 paper, he advocated an expansion of statistics beyond theory into technical areas; because this would significantly change the field, it warranted a new name. 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. Cleveland. Data science is a "concept to unify statistics, data analysis, informatics, and their related methods" to "understand and analyze actual phenomena" with data. A data scientist is a professional who creates programming code and combines it with statistical knowledge to create insights from data. This can involve tasks such as data cleaning, data visualization, and exploratory data analysis to gain insights into the data and develop hypotheses about relationships between variables. In 2003, Columbia University launched The Journal of Data Science. They work at the intersection of mathematics, computer science, and domain expertise to solve complex problems and uncover hidden patterns in large datasets. A data scientist is a professional who creates programming code and combines it with statistical knowledge to create insights from data. 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. 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. F.